

GEHL

Form No.
50960020
Revision C
January
2014

DL Series Dynalift®

DL7/DL9/DL11/DL12

Telescopic Handlers

(Equipped with Interim Tier IV Engines)

For machines beginning with serial numbers:

DL7 (High Boom) - SN 21051

DL9 (High Boom) - SN 31151

DL11 (High Boom) - SN 41451

DL12 (High Boom) - SN 50851



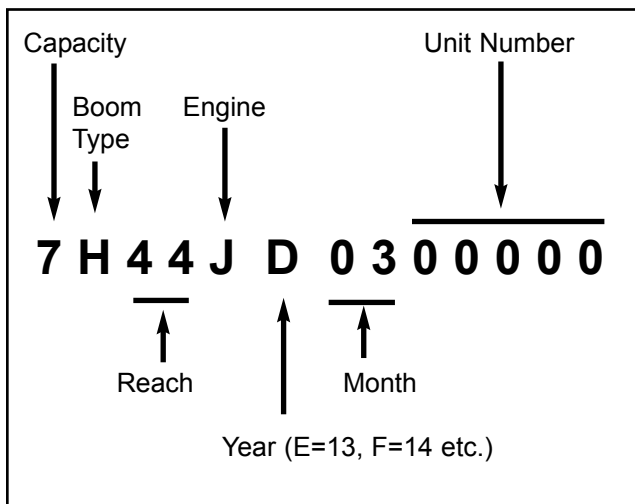
Parts Manual

NOTE: *This parts manual identifies standard and optional features for this model. Depending on the features of your machine, some of the items identified in the parts lists may, or may not be included with your machine.*

The Table of Contents pages show the page locations of various component groups on the machine.

When ordering service parts, specify the correct part number, full description, quantity required, and the unit model and serial number.

Model and serial numbers for this unit are stamped on a plate located inside the operator's station. The serial number is also stamped on the top front frame. The following reference shows the breakdown of the serial number:



“Right” and “left” are determined from a position standing behind the unit and facing the direction of travel.

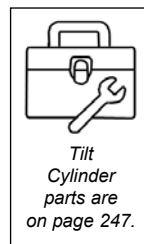
Gehl Company reserves the right to make changes or improvements in the design or construction of any part of the unit without incurring the obligation to install such changes on any unit previously delivered.

Hardware listed is for mounting purposes and is NOT included when the part is ordered for replacement.

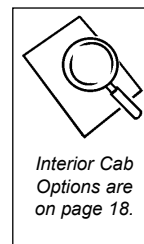
Standard attaching hardware torque values are provided on the inside back cover. Unless otherwise specified, all cap screws are Grade 5, cadmium or zinc plated; hexagon nuts for Grade 5 cap screws and bolts are Grade 5.

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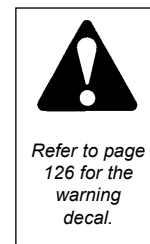
The following icons shown on various pages provide important information or identify where additional information can be found.



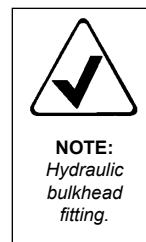
Identifies where additional pages for component parts, seals, and kits can be found.



Identifies where additional information can be found.



Alerts and directs user to investigate more information.



Identifies missing, hidden parts, or adds informational comments.



ABBREVIATIONS USED IN THIS MANUAL

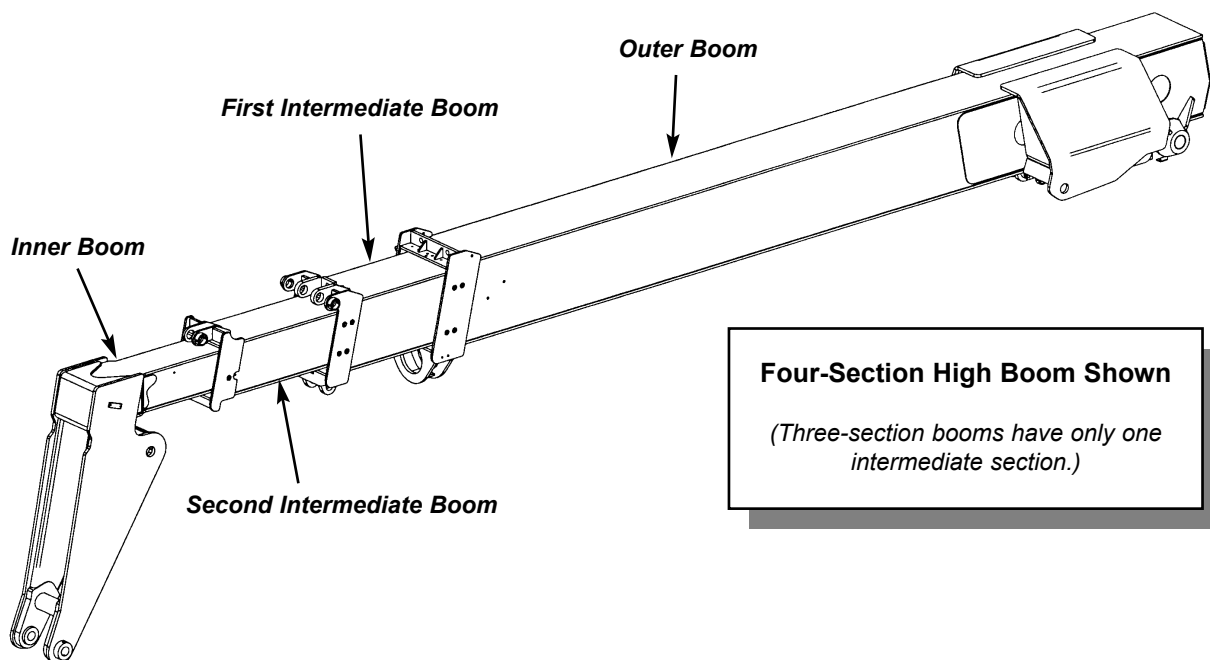
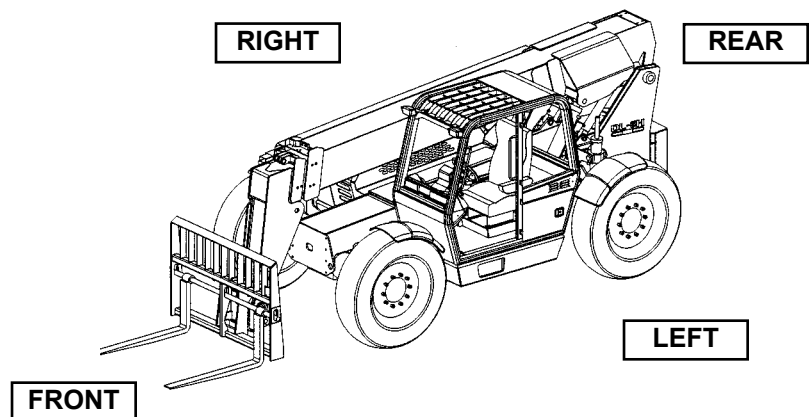
ASSD	Assembled
ASSY	Assembly
AR	As Required
CB	Carriage Bolt
CFPD	Contact Factory Parts Department
CP	Cotter Pin
CS	Cap Screw (Bolt)
CYL	Cylinder
DIA	Diameter
EU	European Union (standards)
FHCS	Flat Head Cap Screw
GR	Grade
HB	Hex Bolt
HLN	Hex Lock Nut
HN	Hex Nut
HP	High Pressure
HYD	Hydraulic
IN	Inch(es)
INS	Insert
LN	Lock Nut
LW	Lock Washer
M	Meter or Meters
MM/mm	Millimeter
NA	Not Applicable
NPT	National Pipe Thread
NSS	Not Sold Separately
ORB	O-ring Boss
REF	Reference
SHCS	Socket Head Cap Screw
SLTD	Slotted
SN	Serial Number or Slotted Nut
SQ	Square
W/	With
W/O	Without

SCHEMATICS

Hydraulic and electrical schematics can be found in the Operator's and Service Manuals for this machine; please refer to the information below for the correct manual.

MANUALS

Operator's Manual: P/N **50960019**
Service Manual: P/N **907871**

**Four-Section High Boom Shown**

(Three-section booms have only one intermediate section.)

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Dynacarrier® Attachments

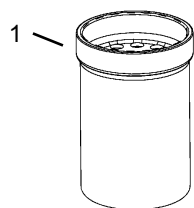
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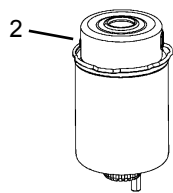
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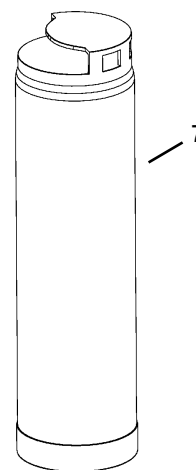
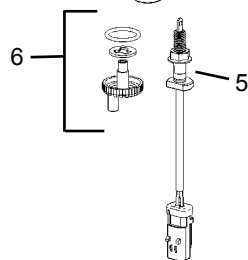
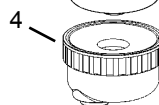
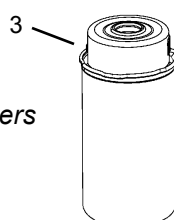
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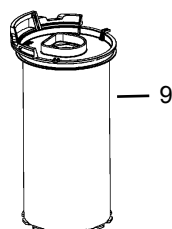
Engine Oil Filter



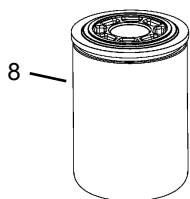
Fuel Filters



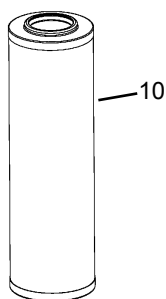
Safety Air Filter



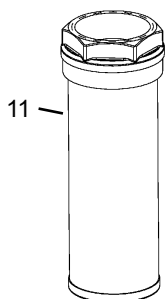
Crankcase Ventilation Filter



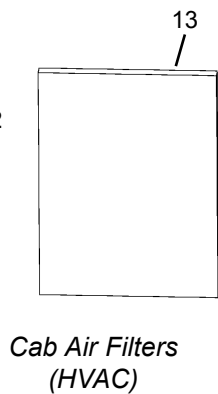
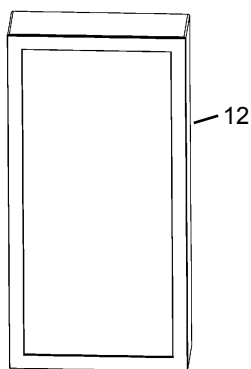
Transmission Filter



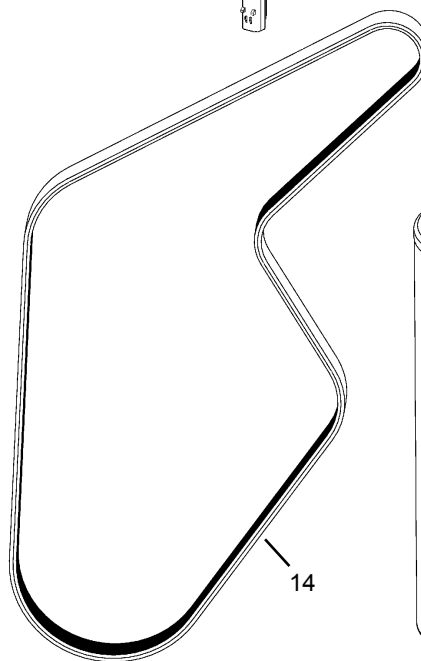
Hydraulic Filter



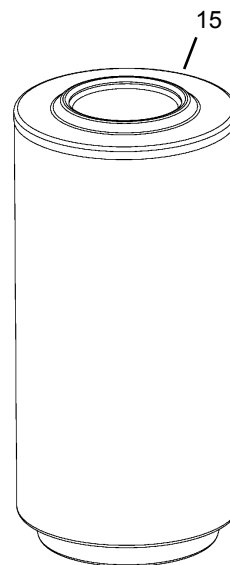
Hydraulic Oil Strainer



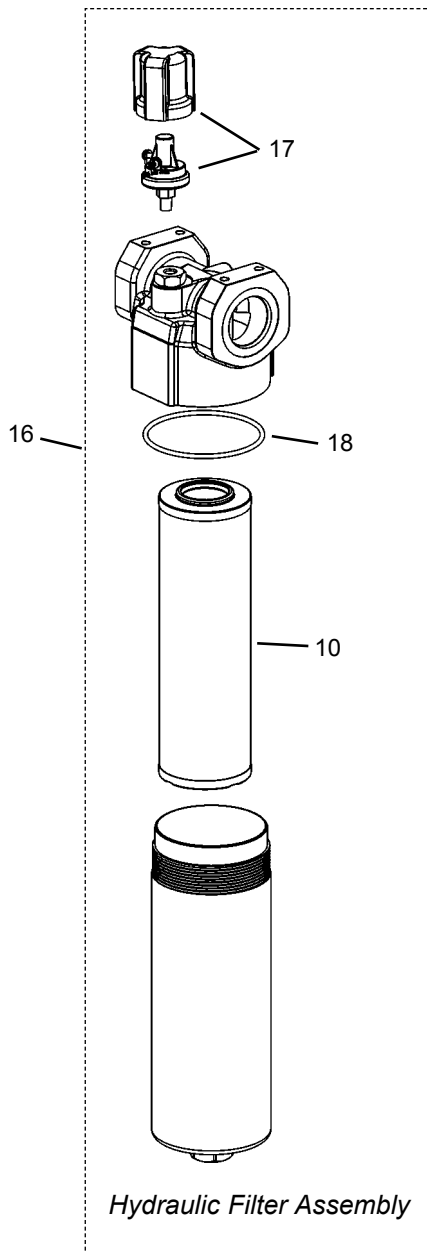
Cab Air Filters (HVAC)



Fan Belt



Primary Air Filter



Ref.	Part No.	Description No.	Qty. Req.
01 ^a	102173	ENGINE OIL FILTER.....	1
02	50220173	FUEL FILTER (<i>secondary</i>)	1
03	50220174	FUEL FILTER (<i>primary</i>)	1
		(does not include sediment bowl or water sensor)	
04	105818	SEDIMENT BOWL.....	1
		(does not include items 5 or 6)	
05	50220622	WATER SENSOR	1
06	50380272	DRAIN VALVE KIT.....	1
		(includes o-ring and seal)	
07	105071	SAFETY AIR FILTER (<i>inner</i>)	1
08	L99440	TRANSMISSION FILTER	1
09	50220168	CV FILTER.....	1
10	L99459	HYDRAULIC FILTER.....	1
11	L69358	SUCTION STRAINER	1
		(located inside hydraulic tank)	
12	101843	CAB AIR FILTER.....	1
		(located behind side door—toolbox)	
13	101848	RECIRCULATING FILTER	1
		(located behind seat—left side)	
14		FAN BELT	1
	50220187	(Standard—no A/C)	
	50220188	(Option—when equipped with A/C)	
15	105070	PRIMARY AIR FILTER (<i>outer</i>)	1
16 ^b	L69309	HYDRAULIC FILTER ASSEMBLY..	1
17	L99970	RESTRICTION INDICATOR	1
18	L500352	O-RING	1

a Use dust seal P/N 102742 as needed.

b Includes all items shown in the box; items without a number are not sold separately. In addition, a 45° fitting (P/N L448002—not shown and not included with the kit) is needed to locate the restriction indicator at an angle; refer to page 54, item 27.

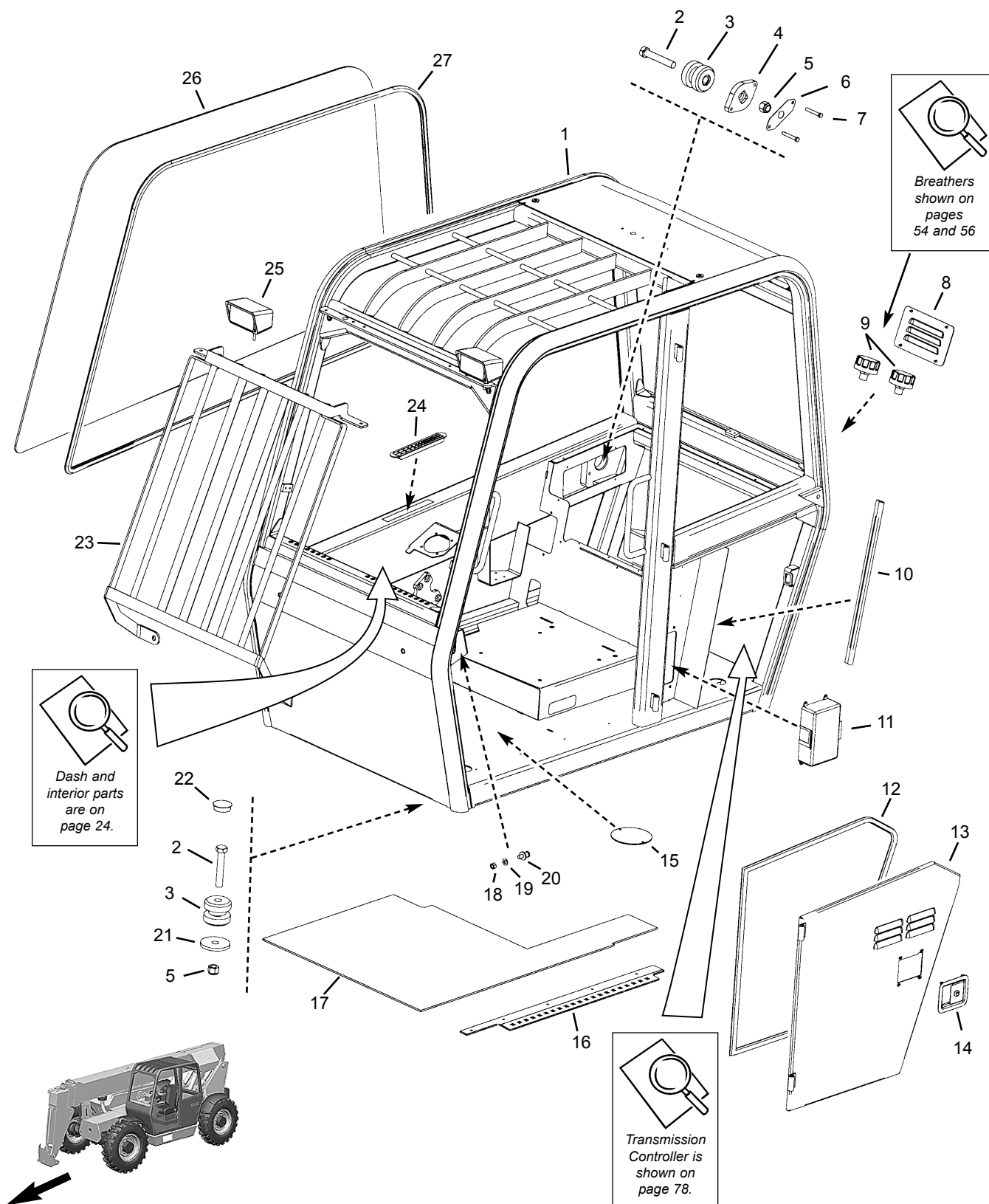


NOTE: Depending on the features of the machine, some of the items identified on the facing page may not be included with the machine.

Analysis Kits*

272806.....	HYDRAULIC OIL ANALYSIS KITS (10)
272809	ENGINE OIL ANALYSIS KITS (10)
272811	BASIC FUEL ANALYSIS KIT (1)
272812.....	COOLANT ANALYSIS KITS (10)
272813.....	FIELD TEST COOLANT STRIP KIT (1)
272814	OIL VACUUM PUMP (1)
272815	COOLANT VACUUM PUMP (1)
272816.....	1/4" PLASTIC TUBING (100-FOOT ROLL)

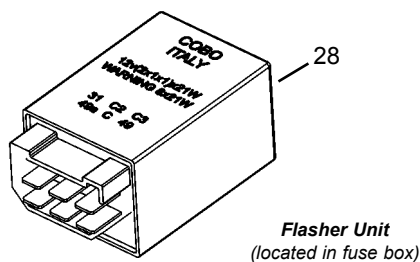
* For the analysis of fluids and lubricants used in this machine, contact your dealer for more information.

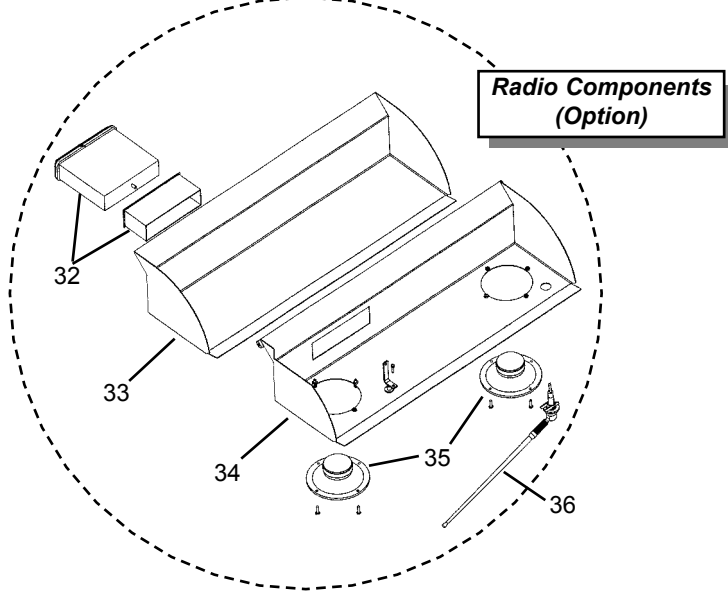
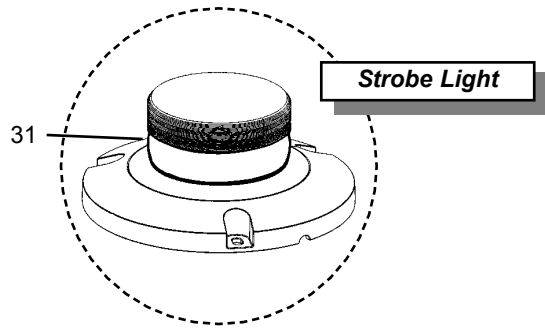
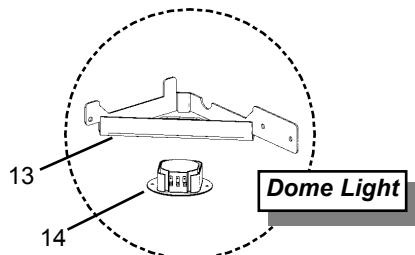
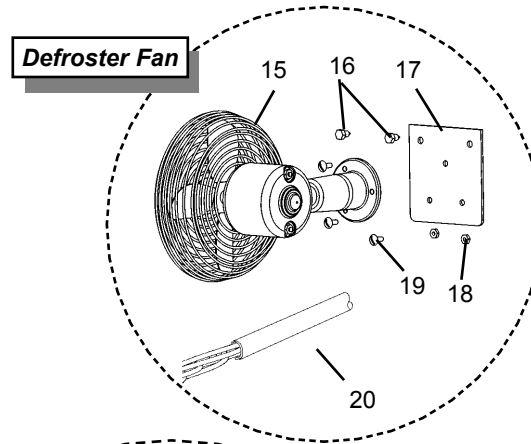
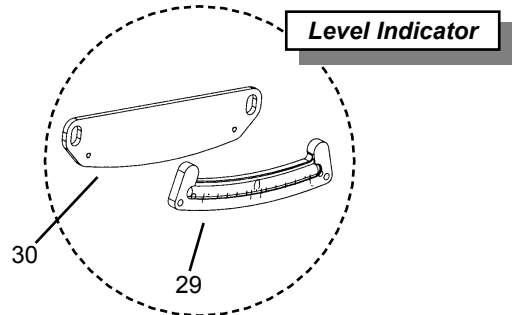
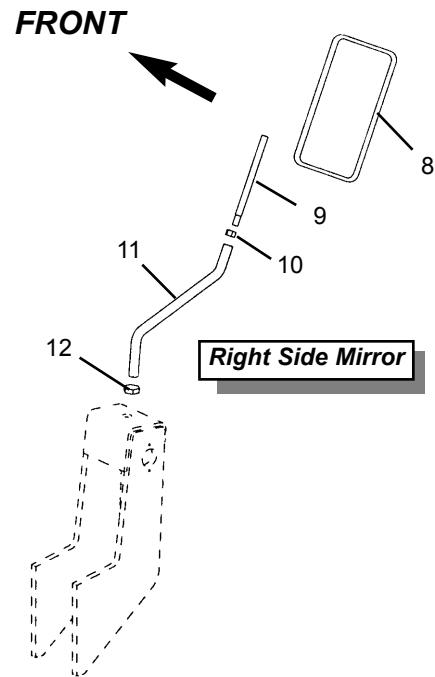
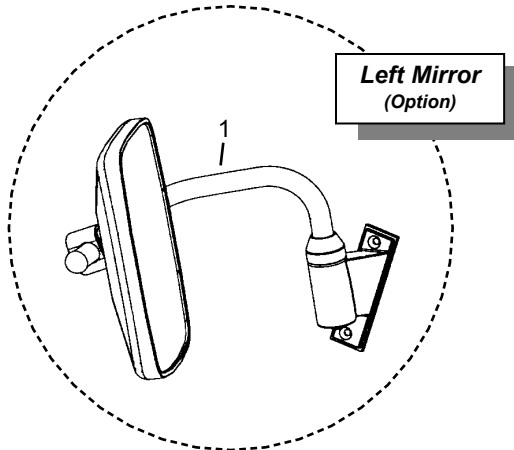


Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	101974	OPEN CANOPY (<i>cab weldment</i>)	1	26	101714	GLASS, RIGHT SIDE	1
02	L50300	7/8"-9X5" HEX GR 5	4		101704	SCREEN (<i>not shown-option</i>)	
03	L69115	ISO MOUNT	4		L500055	SCREW/FLANGE	AR
04	101487	WASHER/CANOPY MOUNT	2		L500057	CLIP/WINDOW BLACK	AR
05	L50301	7/8"-9 CLASS C LOCK NUT	4	27	101713	BULB SEAL, RIGHT-SIDE WIND	1
06	101667	RETAINER/CANOPY NUT	2				
07	650492	3/8"-16X2-1/2" HX GR5	4			-- ITEMS NOT SHOWN --	
08	101902	PANEL/ACCESS BREATHER	1	--	L500064	PLUG/HOLE, .5" BLACK	1
	L70116	SCREW	4	--	L500060	DECAL/ROPS/FOPS WARN.	1
09	L70388	BREATHER (<i>fuel and hydraulics</i>)	2	--	101716	HEADLINER	1
10	101774	TRIM/DIVIDER	1				
11	L69137	FUSE BOX (<i>does not include fuses or relays</i>)	1			(Wiring Harness)	
12	101773	BULB SEAL/STORAGE DOOR	1	--b	50380324	CANOPY WIRE HARNESS (<i>includes fuse box and fuses</i>)	1
13	101914	STORAGE DOOR	1		L500748	DIODE PACK, 3 DIODES	2
	L500049	3/8"-16 LOCK NUT	2		L500747	DIODE PACK, CLEAR COVER (<i>Attaches to fuse box and runs under the dash.</i>)	2
	650697	3/8"-16X6" BOLT	2				
14	L500125	PADDLE LATCH	1			(Wire Harness - Frame)	
	L99157	KEY ONLY (<i>CH751</i>)	1	--	50380328	FRAME WIRE HARNESS	1
15	101903	COVER	1				
16	101720	FLOOR MAT RETAINER	1			(Fuse box fuses and relays)	
	L70486	SCREWS, MAT RETAINER	AR	--	L70075	CHANGEOVER RELAY	10
17	101721	FLOOR MAT	1	28	L70123	FLASHER UNIT	1
18	650313	7/16" NUT	1	--	L70121	WIRE ASSEMBLY	7
19	L50149	7/16" FLAT WASHER	1	--	101356	CONNECTION BRIDGE	2
20	L63548	STRIKER, DOOR	1	--	L70244	5 A ATC FUSE	4
21	L69729	WASHER, RETAINER	2	--	L70245	10 A ATC FUSE	4
22	L70017	PLUG/HOLE 2.25"	2	--	L70246	20 A ATC FUSE	4
23	101767	FRONT GUARD	1	--	L70247	30 A FUSE	4
	654009	1/2" FLAT WASHER	AR	--	L500225	60 A FUSE	4
	650495	1/2"-13X1-1/4" BOLT GR5 HX	AR				
24 ^a	L500059	FIXED VANE LOUVER	1				
25	L70039	HEAD LIGHT	2				
	L70241	HEAD LIGHT HARNESS	2				
	101711	GROMMET, 11/16" ID 1-5/16" OD	2				
	101712	GROMMET, 3/8" ID 13/16" OD	AR				
	L70463	GROMMET, 3/8" ID 3/4" OD	AR				

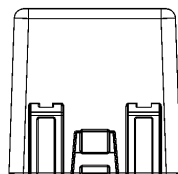
a When equipped with heater or air conditioning.

b Includes (2) diode packs PN L500748.

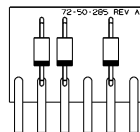




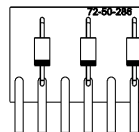
Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01 ^a	219274	MIRROR ASSEMBLY (<i>left hand</i>) . . .	1			(Wiring Harness - In-line Diode)	
	L50202	1/4"-20X5/8" BUTT. HD BOLT . . .	AR	28	L60587	3 AMP, IN-LINE DIODE	AR
	L50051	1/4"-20 WHIZ LOCK NUT.	AR			(Level Indicator)	
		(Right Side Mirror)		29	L66011	LEVEL INDICATOR	1
08	L70417	SIDE MIRROR.	1	30	L69297	LEVEL INDICATOR MOUNT.	1
09	L70345	MIRROR BAR (<i>Mirror End</i>)	1			(Strobe Light - Option)	
10	L50081	5/8"-11 NUT	1	31	104952	STROBE LIGHT	1
11	L70344	MIRROR BAR (<i>Base End</i>)	1		L71652	STROBE LIGHT HARNESS	1
12	210-32160	1" JAM NUT.	1		650936	#8-32X1/2" MACH. SCREW	3
		(Dome Light)			653002	#8-32 NUT.	3
13	103159	DOME LIGHT MOUNT	1		L63876	GROMMET, RUBBER.	1
14	137497	DOME LIGHT	1		L71083	SWITCH, BEACON.	1
	103160	HARNESS, INTERIOR LIGHT	1			(Radio Components - Option)	
		(also provides battery power to radio if equipped with radio option)		32 ^b	NSS	STEREO, CD W/ACCESSORIES . .	1
	103161	HARNESS, DOME LIGHT GRND . .	1	33 ^b	NSS	FOSS, RADIO OPTION.	1
	103188	GROMMET, 5/8"	1	34	102864	WELDMENT, RADIO KIT	1
	651642	#8-32X1/2" SCREW	1	35	102866	SPEAKER, W/GRILL.	2
		(Defroster Fan - Option)		36	102743	ANTENNA, TOP/SIDE MOUNT . . .	1
15	L66986	DEFROSTER FAN	1			(Fan and Radio Electrical Components - Option)	
16	650315	1/4"-20X1/2" SELF TAPSCREW . .	2	37	50381175	HARNESS, FAN AND RADIO	1
17	L66993	BRACKET, DEFROSTER FAN	1			(provides ignition power)	
18	650550	#10-24 NUT	3			<i>a Some early-style cabs do not have a bracket to mount the optional mirror; however, there is a kit (PN 50860013) available which includes a weld-on bracket, mirror, and hardware.</i>	
19	L50655	#10-24 BOLT	3			<i>b Obtain locally.</i>	
20	101158	HARNESS/DEFROSTER FAN	1				
	L70463	GROMMET, 3/8"ID 3/4"OD.	AR				
		(Wiring Harness - Diode Packs)					
21	L500747	CLEAR COVER, DIODE PACK . .	AR				
22	L500569	DIODE PACK, 4 DIODES.	AR				
23	103101	DIODE PACK, 3 DIODES.	AR				
24	L500748	DIODE PACK, 3 DIODES.	AR				
25	103104	DIODE PACK, 4 DIODES.	AR				
26	104725	DIODE PACK, 4 DIODES.	AR				
27	50220186	DIODE PACK, 5 DIODES.	AR				



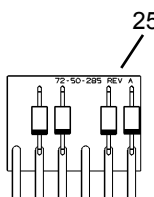
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Diode Packs

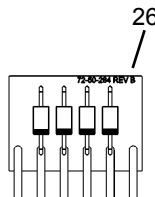
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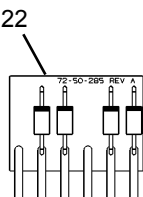
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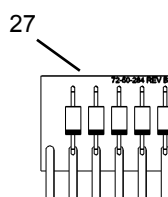
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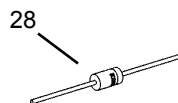
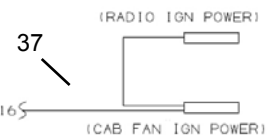
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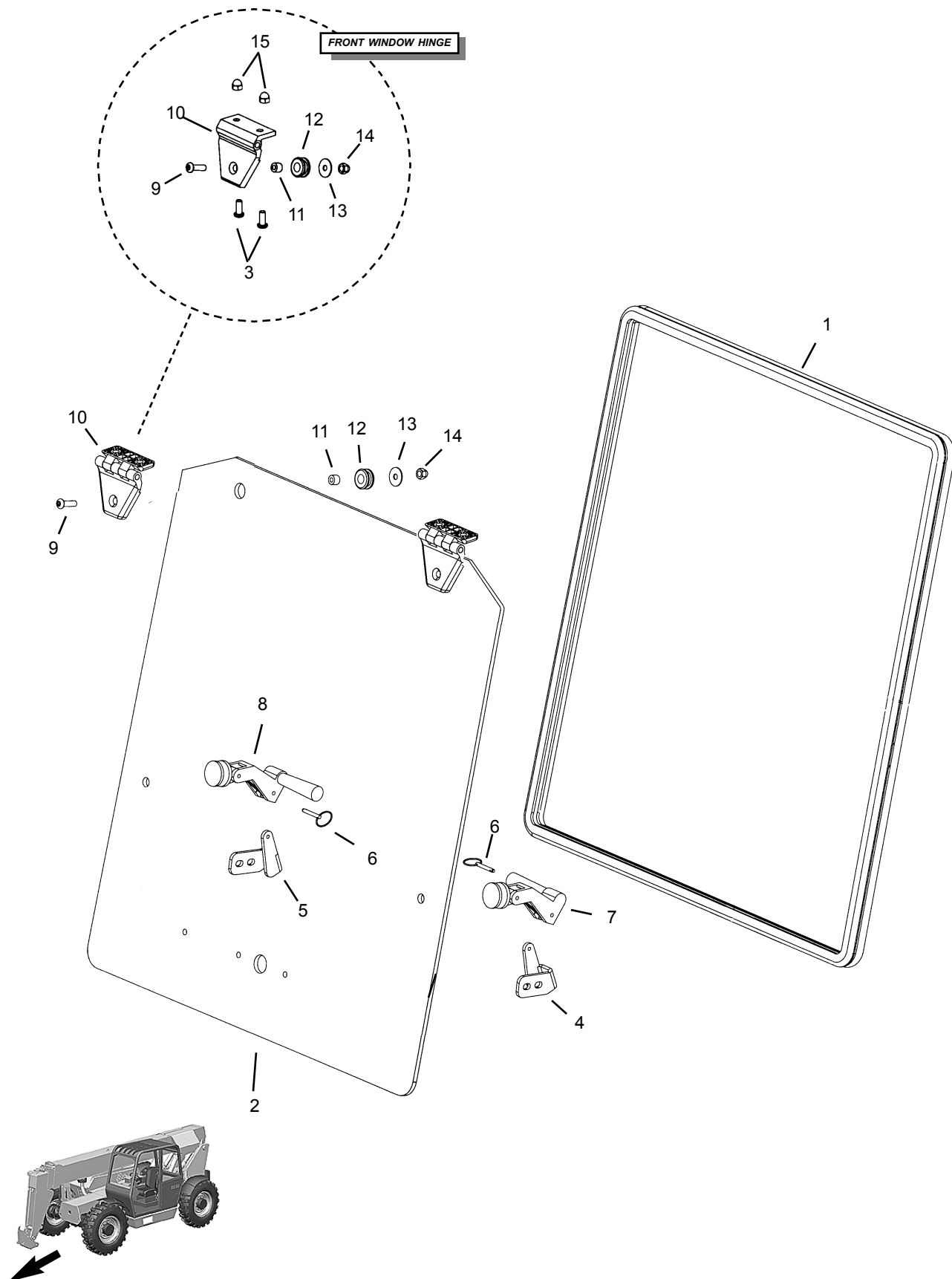


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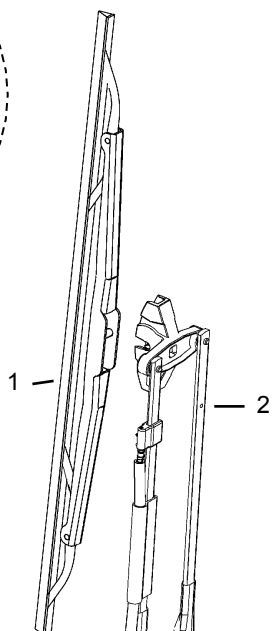
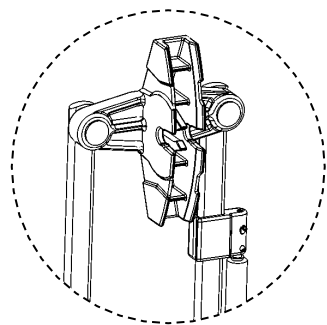
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**In-line Diode**

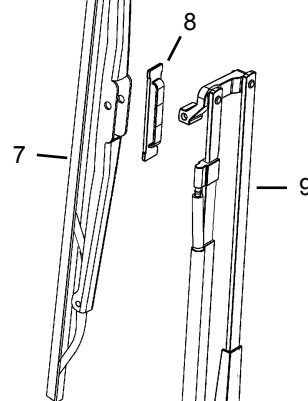
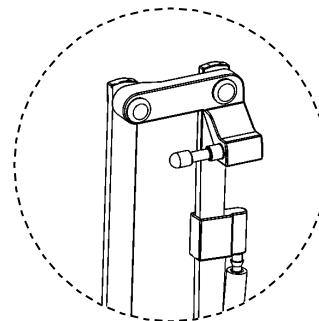


Cab Wiper - Front

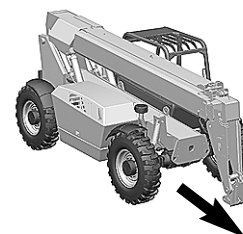
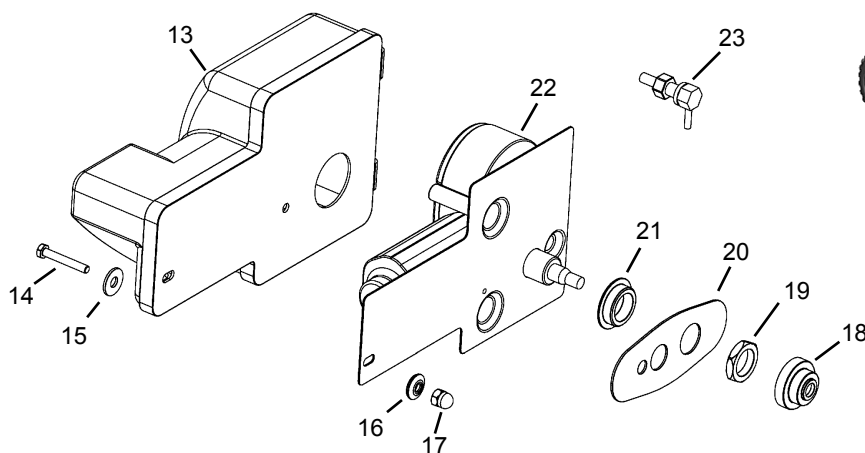
DL Series Dynalift



**Late-Style
Wiper**



**Early-Style
Wiper**



Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	50380586	WIPER BLADE, 22".....	1	23	L500099	ADAPTER/WET ARM	1
02	50380576	WIPER ARM, PANTOGRAPH 16" ..	1	24	101495	BOTTLE, DUAL -PUMP WASHER .	1
03	50380579	PLATE, PANTO ARM MOUNT	1	25	50380469	MOUNT, WASHER BOTTLE	1
04	50380583	PIN, PANTO ARM MOUNT	1	26	650486	CS 5/16" x 3/4" C5ZY	4
05	L500706	M5, ACORN NUT	1	27	210-19470	HN FL SLOC 5/16 CZY	4
06	L500700	M8, ACORN NUT	1	28	651668	CS M12-1.75x16 C8.8	2
07	L500703	WIPER BLADE, 22".....	1				
08	L500707	ADAPTER, PIN LOCK	1				
09 ^a	NSS	WIPER ARM, PANTOGRAPH	1				
10	L500719	PANTO ADAPTER PLATE	1				
11	101717	WASHER, #10 WEATHERTITE ...	1				
12	L500711	SCREW, M5 16mm	1				
13	L500696	COVER WIPER MOTOR	1				
14	L500718	BOLT / 10-24x1.25 HEX GR5	1				
15	L500001	WASHER/BLK NYLON	1				
16	101717	WASHER, #10 WEATHERTITE ...	2				
17	L500004	NUT/ACORN #10-24 BLK	1				
18	L500709	RAIN SHIELD	1				
19	L500697	M18, NUT	1				
20	L500701	GASKET, PANTO ADAPTER	1				
21	L500708	TOWER SEAL, TRICO WIPER	1				
22	L500695	WIPER MOTOR, TRICO	1				

-- ITEMS NOT SHOWN --**(Windshield Wiper Harness)**

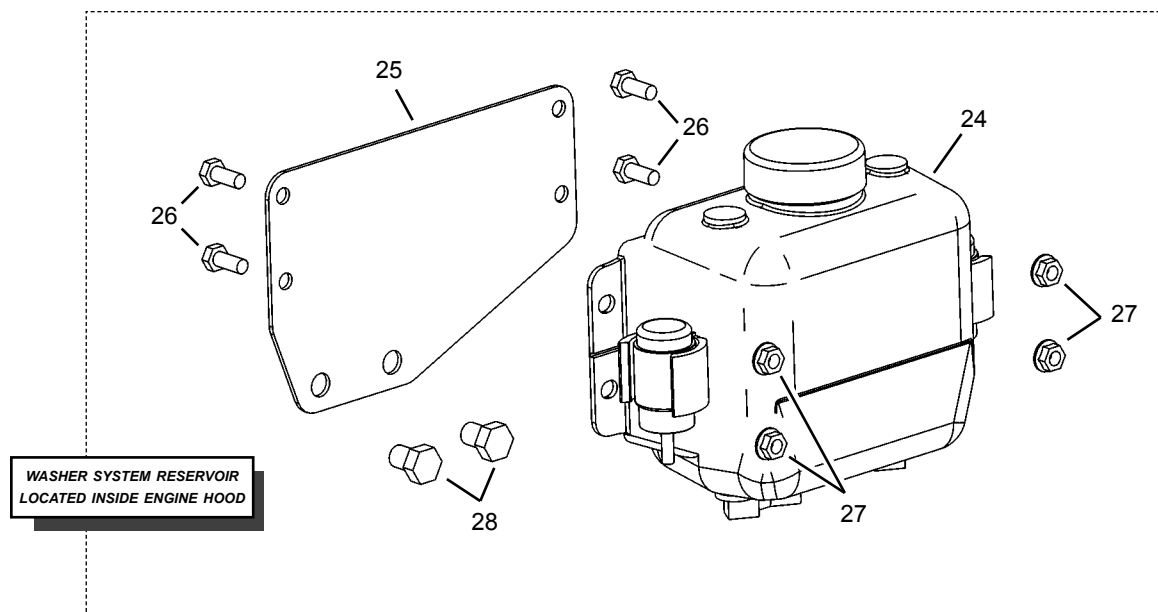
-- 103180 HARNESS, FRONT WIPER 1

(Windshield Washer System)

-- 210086 HARNESS, WASHER BOTTLE ... 1

-- 103013 TUBING, WASHER (15-1/2') 1

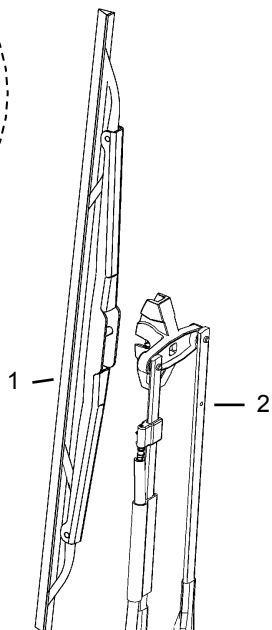
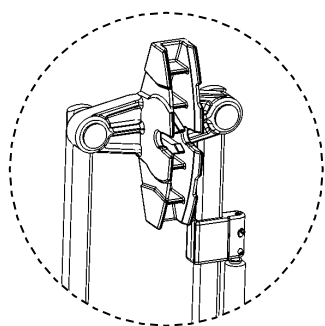
a The early-style wiper arm is no longer available; it will be necessary to order P/N 50380585 Wiper Arm Kit, which contains items 1-4.



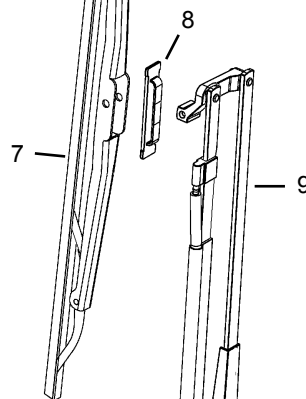
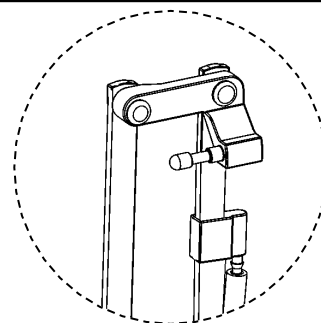
Cab

Top Window and Wiper

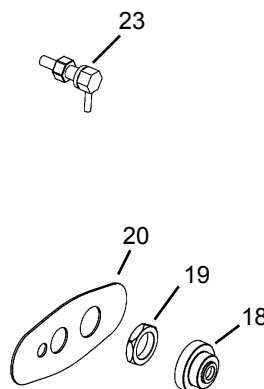
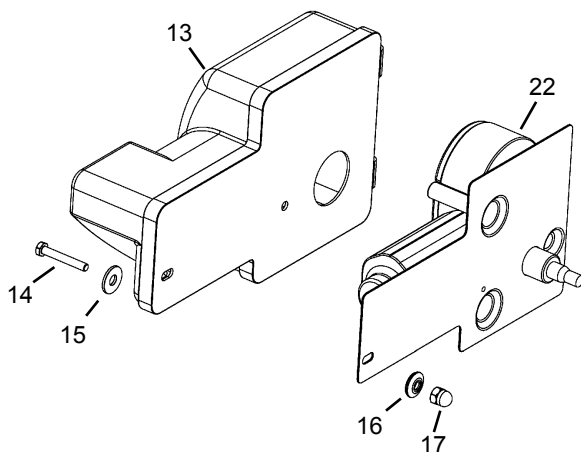
DL Series Dynalift



**Late-Style
Wiper**

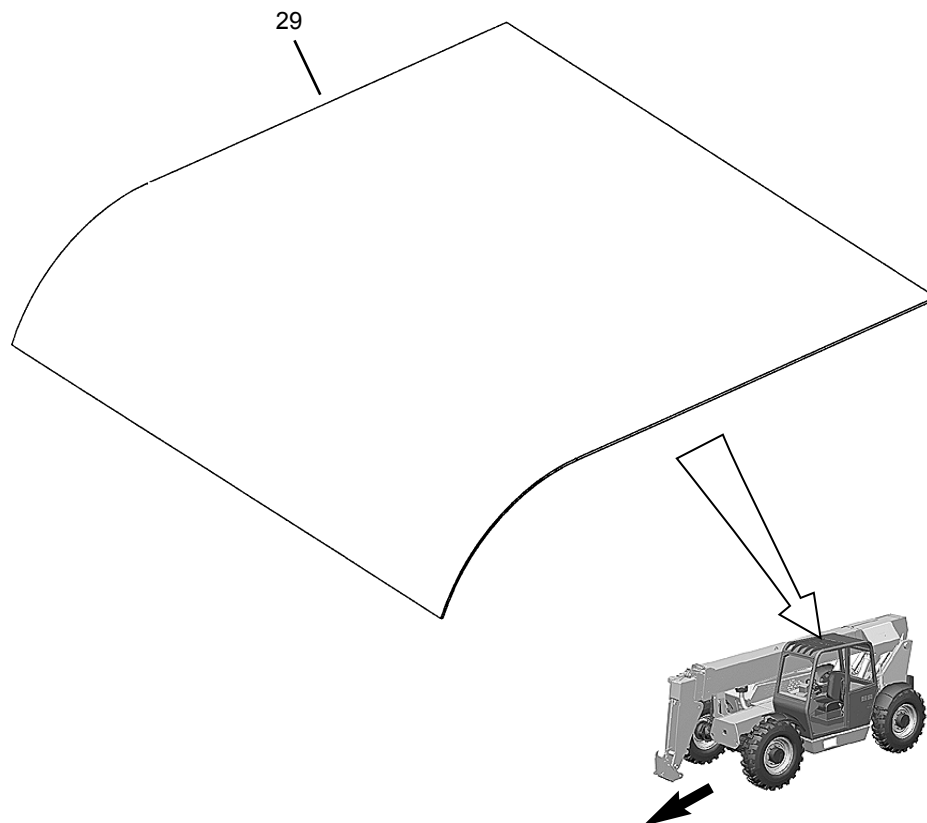


**Early-Style
Wiper**



Top Window and Wiper

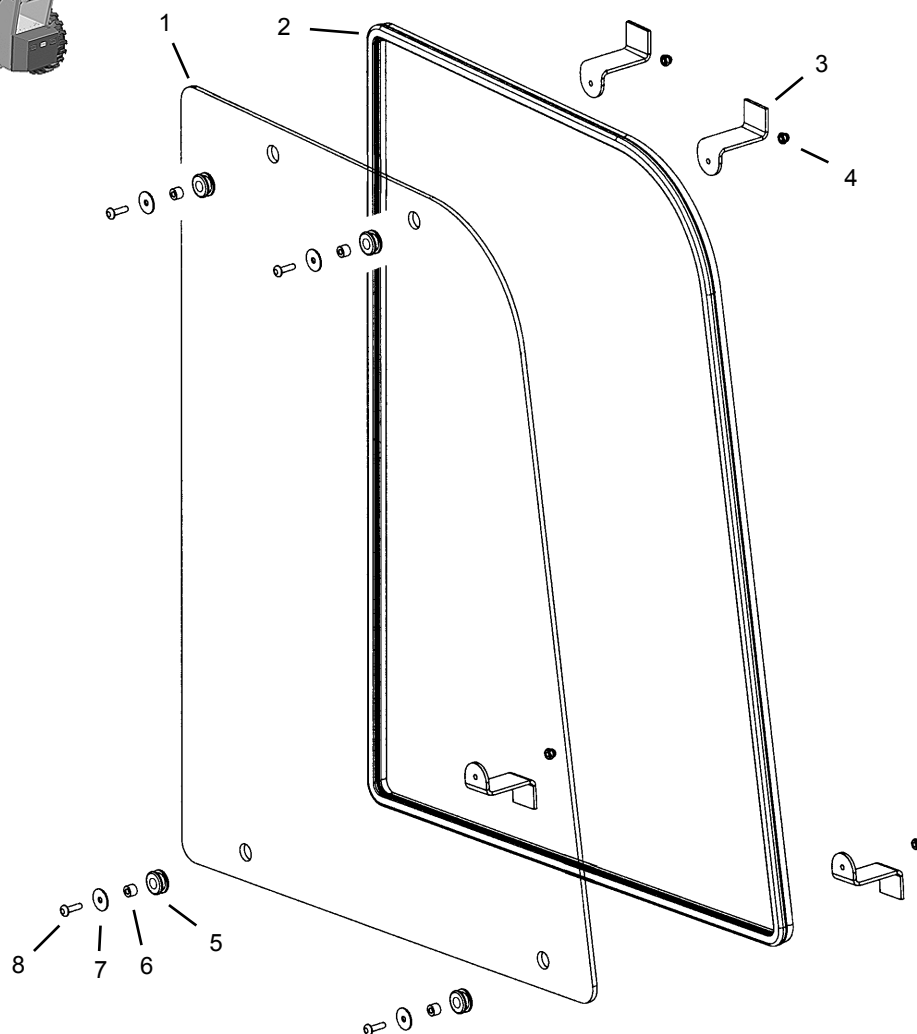
Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	50380586	WIPER BLADE, 22".....	1	22	L500695	WIPER MOTOR, TRICO.....	1
02	50380892	WIPER ARM, PANTOGRAPH 22" ..	1	23	L500099	ADAPTER/WET ARM	1
03	50380579	PLATE, PANTO ARM MOUNT	1	24	101495	BOTTLE, DUAL -PUMP WASHER .	1
04	50380583	PIN, PANTO ARM MOUNT	1	25	50380469	MOUNT, WASHER BOTTLE.....	1
05	L500706	M5, ACORN NUT	1	26	650486	CS 5/16" x 3/4" C5ZY	4
06	L500700	M8, ACORN NUT	1	27	210-19470	HN FL SLOC 5/16 CZY.....	4
07	L500703	WIPER BLADE, 22".....	1	28	651668	CS M12-1.75x16 C8.8.....	2
08	L500707	ADAPTER, PIN LOCK.....	1	29	101723	GLASS, TOP	1
09 ^a	NSS	WIPER ARM, PANTOGRAPH.....	1		L500607	GLUE KIT (<i>not shown</i>)	1
10	L500719	PANTO ADAPTER PLATE	1	-- ITEMS NOT SHOWN --			
11	101717	WASHER, #10 WEATHERTITE ...	1	(Windshield Wiper Harness)			
12	L500711	SCREW, M5 16mm	1	--	103179	HARNESS, TOP WIPER.....	1
13	L500696	COVER WIPER MOTOR.....	1	(Windshield Washer System)			
14	L500718	BOLT / 10-24x1.25 HEX GR5	1	<i>Refer to previous page for the washer bottle and tubing.</i>			
15	L500001	WASHER/BLK NYLON	1	a <i>The early-style wiper arm is no longer available; it</i>			
16	101717	WASHER, #10 WEATHERTITE ...	2	<i>will be necessary to order P/N 50380893 Wiper Arm</i>			
17	L500004	NUT/ACORN #10-24 BLK.....	1	<i>Kit, which contains items 1-4.</i>			
18	L500709	RAIN SHIELD	1				
19	L500697	M18, NUT	1				
20	L500701	GASKET, PANTO ADAPTER	1				



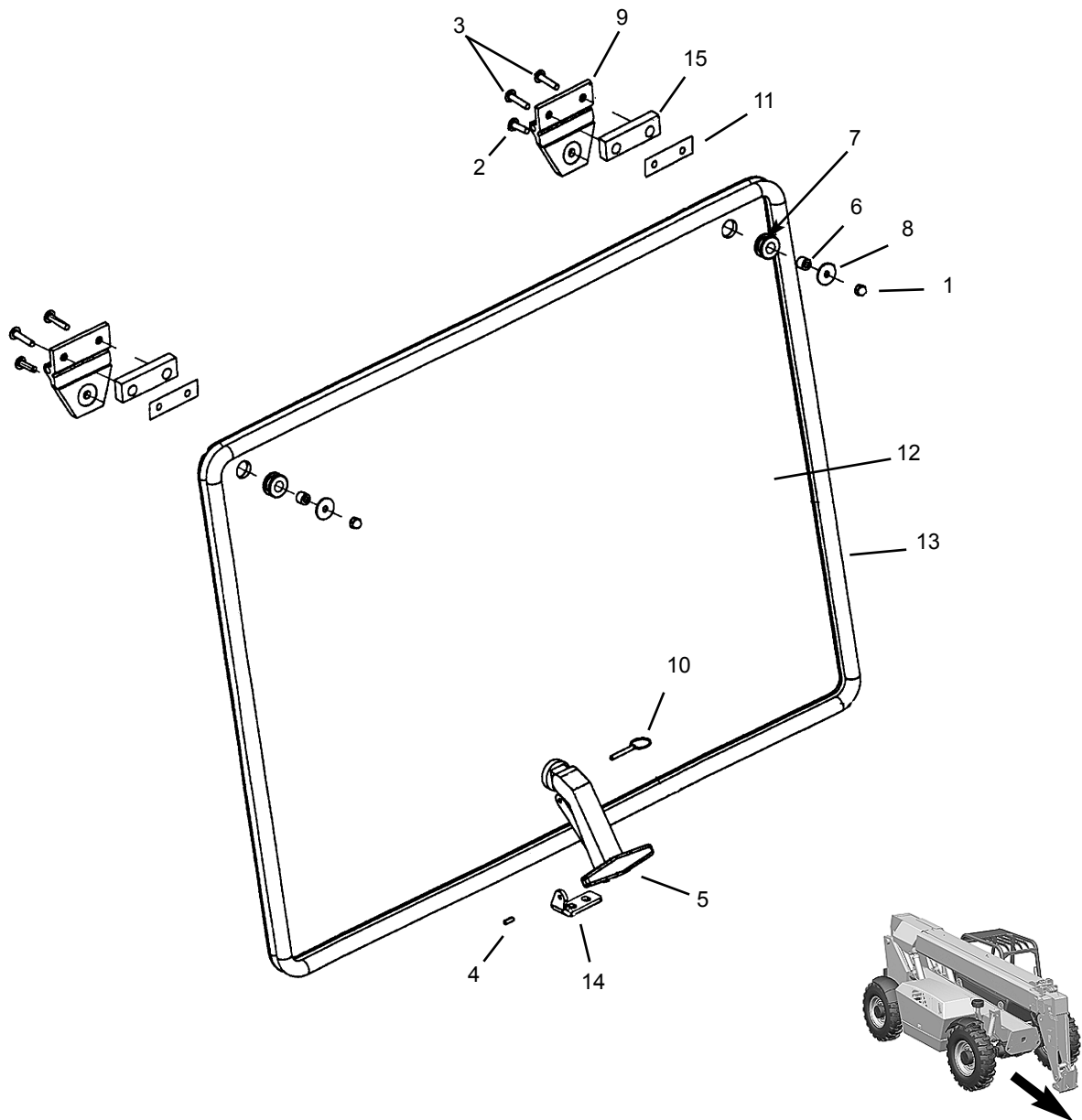
Cab

Window - Left

DL Series Dynalift



Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	101724	GLASS, LEFT SIDE	1	05	L500021	GROMMET/.50 ID .25 GROOVE . .	4
02	101722	BULB SEAL, LH REAR WINDOW .	1	06	L500020	BUSHING/NYLON	4
03	101905	CLIP, Z	4	07	L500022	WASHER/FLAT BLACK	4
04	L500017	1/4"-20 NUT/ACORN BLK	4	08	101733	1/4"-20x7/8" TRS TX	4

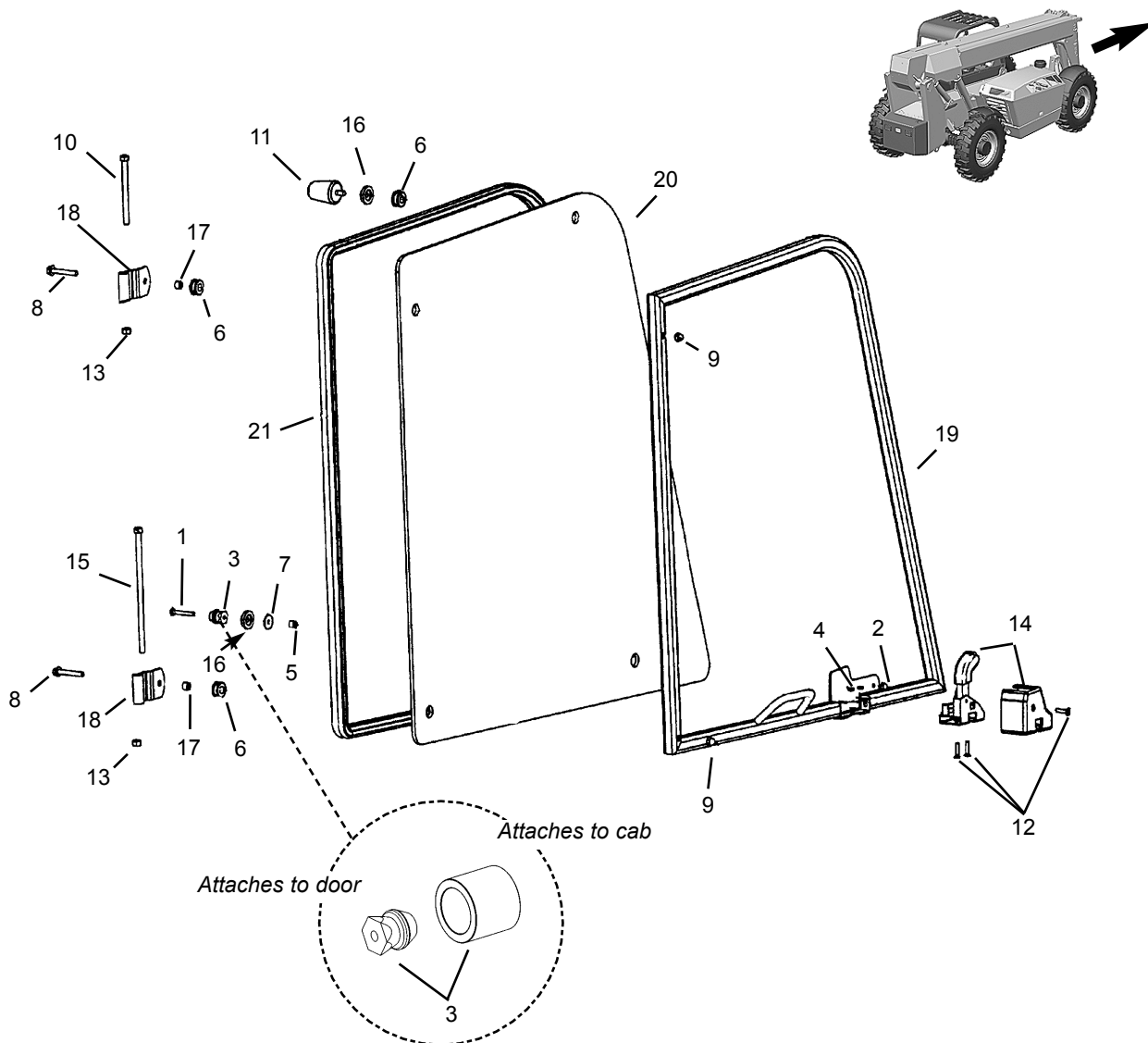


Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
--	101761	REAR WINDOW ASSEMBLY 1 (includes all items shown)		07	L500021	GROMMET, 1/2"ID 1/4" GROOVE . 2	
01	L500017	1/4"-20 NUT/ACORN BLK. 2		08	L500022	WASHER/FLAT BLACK. 2	
02	L70486	1/4"-20x1" BOLT BLK 2		09	L500024	HINGE/PLASTIC 2	
03	101732	1/4"-20x1-1/4" TRS G5 ES5BF . . . 4		10	L500025	PIN/DETENT RING 1	
04	L500019	PIN/ROLL 1		11	101790	GASKET 2	
05	101727	HOLD OPEN, WINDOW T-STYLE . 1		12	101728	GLASS, REAR WINDOW 1	
06	L500020	BUSHING/NYLON. 2		13	101729	BULB SEAL, REAR WINDOW . . . 1	
				14	101730	MOUNT, REAR WINDOW LATCH . 1	
				15	101908	HINGE BLOCK 2	

Cab

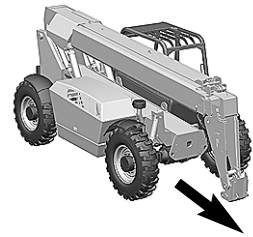
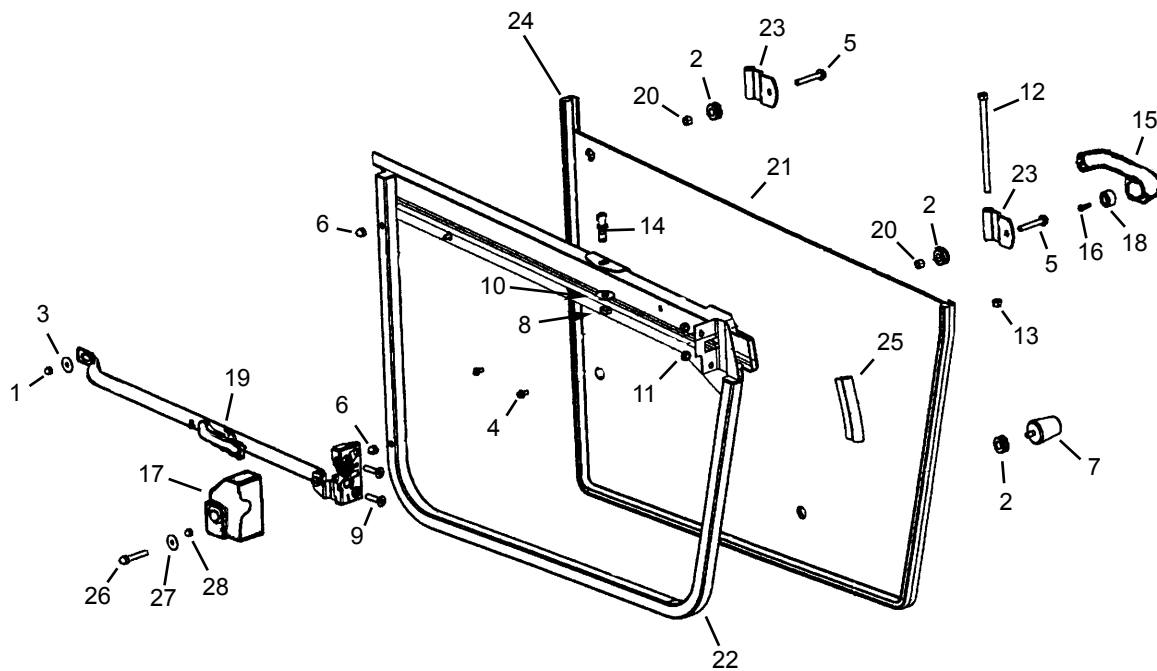
Door - Upper

DL Series Dynalift



Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
--	101907	UPPER DOOR ASSEMBLY 1 (Includes all items shown.)		13	101743	NUT, 3/8"-16 HEX TL-316SS 2	
01	L500034	SCREW/HEX 1		14	101756	LATCH, ROTARY RIGHT 1	
02	L500017	NUT, ACORN 1/4"-20 BLK 1		15	101757	3/8"-16x8-1/2" BOLT HEX SS 1	
03 ^a	L500036	HOLD OPEN/DOOR (set) 1		16	101719	GLASS MOUNT 2	
04	101753	NUT, HEX M6x1 YZ DR 10.9 2		17	L500042	BUSHING, STEEL 2	
05	L500020	BUSHING, NYLON 1		18	101909	HINGE, DOOR 2	
06	L500021	GROMMET, 0.50" 0.25" GROOVE . 3		19	101910	UPPER DOOR (frame) 1	
07	L500114	BUSHING, NYLON-WHITE 1		20	L500967	GLASS, UPPER DOOR 1	
08	L500037	BOLT, BLK TRUSS HEAD. 2			L500607	GLUE KIT 1	
09	L500038	NUT, ACORN BLACK 2		21	101759	BULB SEAL, UPPER DOOR. 1	
10	101754	BOLT, 3/8"-16x4-1/2" HEX 304 SS . 1					
11	101709	BUMPER, RUBBER 2" CONE 1					
12	101755	BOLT, M6x1x25 FLT PH ES5YZ . . . 3					

^a Includes both components, one attaches to door, the other attaches to the cab.

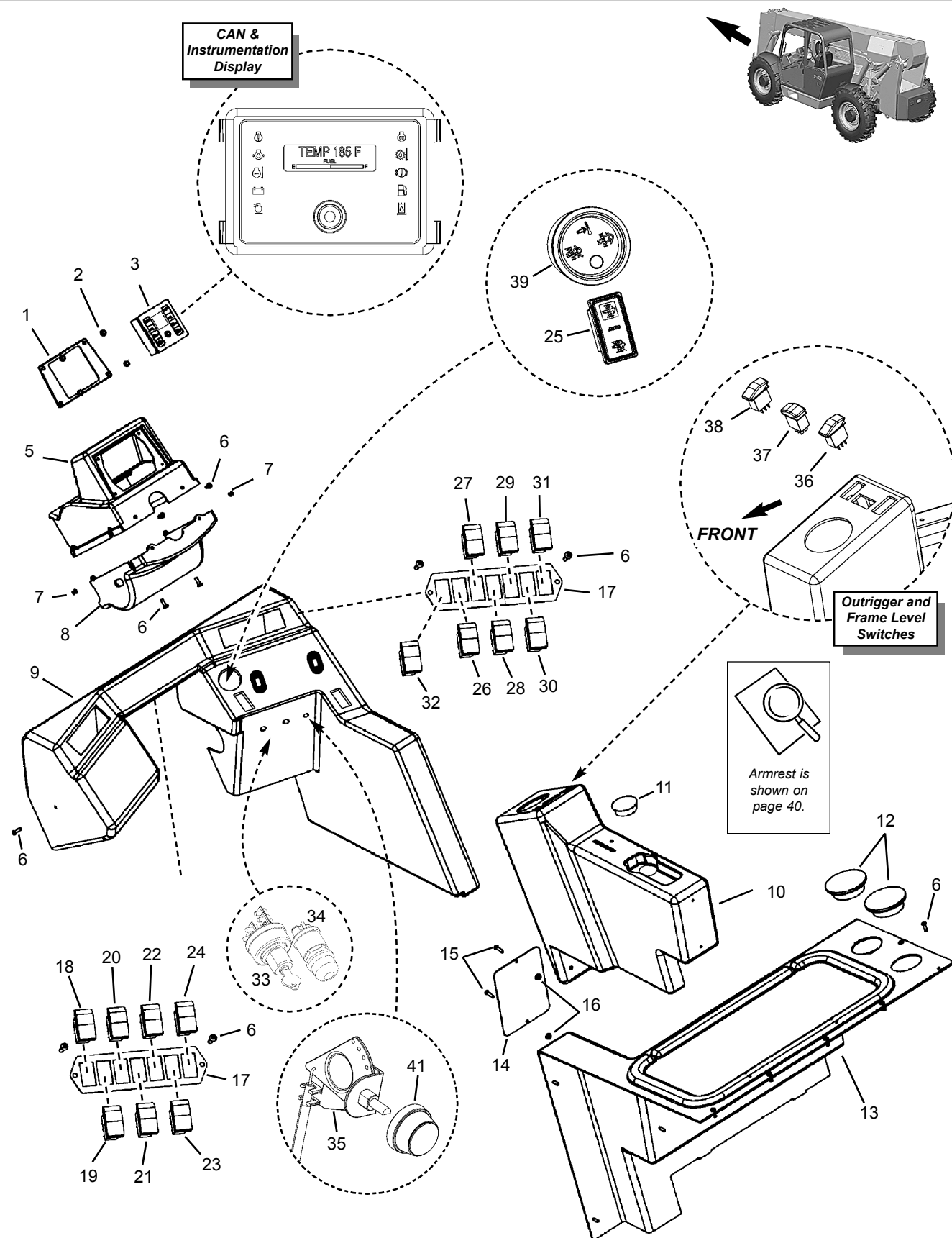


Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
--	101906	LOWER DOOR ASSEMBLY 1 (Includes all items shown.)		16	101745	M5x20 BOLT PAN PH 1	
01	L500017	1/4"-20 NUT/ACORN BLK. 1		17	101746	COVER, GRAB HANDLE LATCH . . 1	
02	L500021	GROMMET, 1/2"ID 1/4" GRV 3		18	101747	BUMPER, RECESS 1	
03	L500022	WASHER/FLAT BLACK. 1		19	101748	CAM LATCH (left) 1	
04	101737	SCR, M6x1x12 FLG YZD 2		20	L500042	BUSHING/STEEL 2	
05	L500037	BOLT, BLK TRUSS HEAD. 2		21	L500966	GLASS, LOWER DOOR 1	
06	L500038	NUT, ACORN BLACK 2		22	101912	LOWER DOOR (frame) 1	
07	101709	BUMPER, RUBBER 2" CONE 1		23	101909	HINGE, LOWER DOOR 2	
08	101738	M12x1 HEX BOLT ES5CZ. 1		24	101751	BULB SEAL, LOWER DOOR 1	
09	101739	M8x1.25x35 BOLT 2		25	101752	INSIDE SEAL, LOWER DOOR . . . 1	
10	101740	1/2"x1-1/4"x0.083" FLT WASHER Z 1		26	101793	M8x20 BOLT HEX FLNG HD 1	
11	101741	M8x1.25 HEX NUT NK ES5CZ. . . . 2		27	L500098	WASHER/BLK NYLON 1	
12	101742	3/8"-16x5" BOLT 1		28	101794	M8 HEX NUT YZ. 1	
13	101743	3/8"-16 HEX NUT TL-316SS. . . . 1		-- ITEMS NOT SHOWN --			
14	101710	STRIKER, M12x1x25 1		--	L500607	GLUE KIT 1	
15	101744	HANDLE, EXT. DOOR LOCKING . . 1					
	101792	KEY ONLY					

Cab

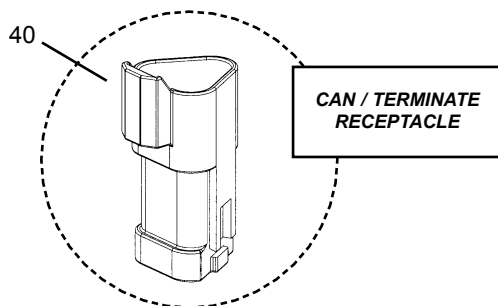
Interior - Dash, Switches, and Panels

DL Series Dynalift



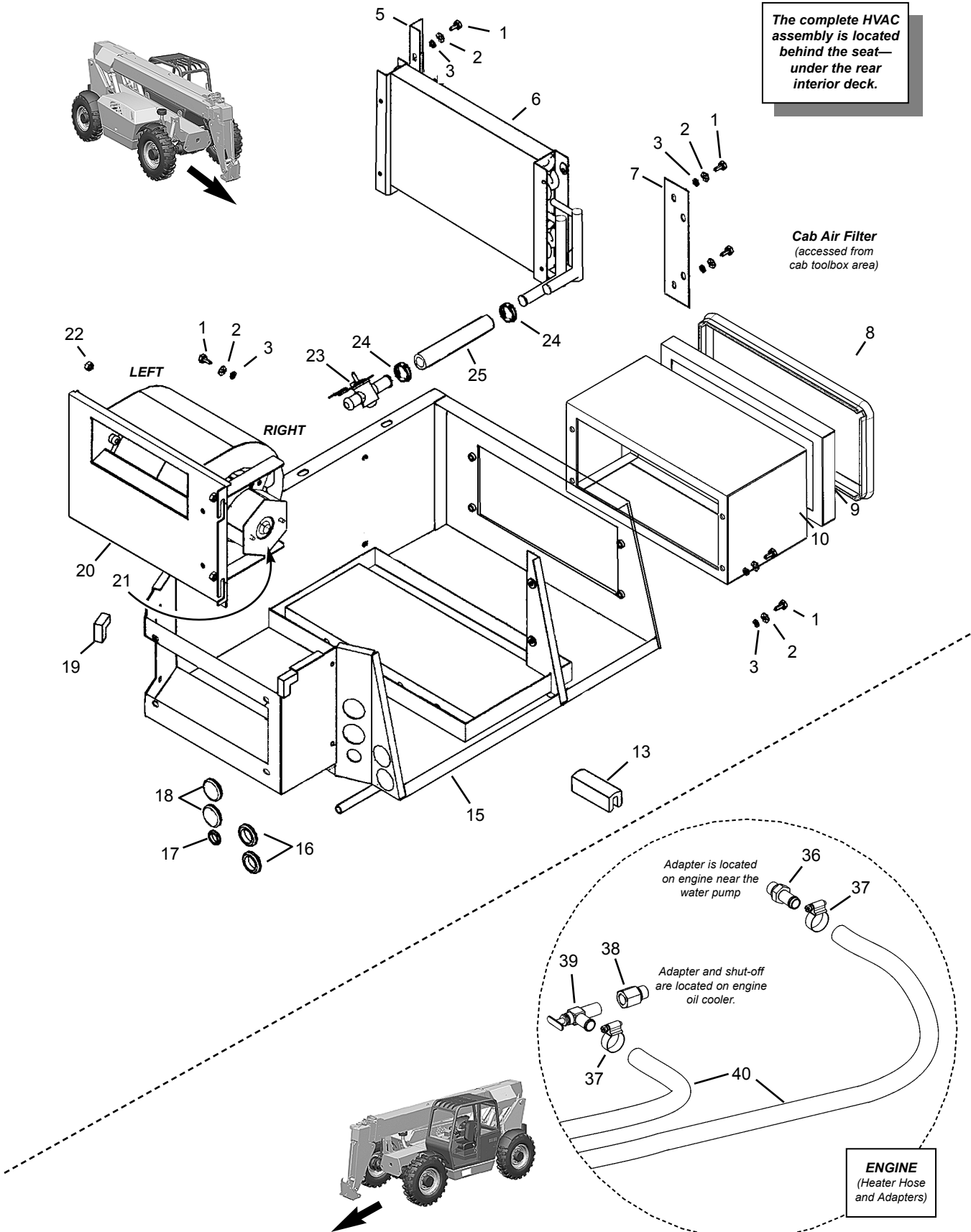
Interior - Dash, Switches, and Panels

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	105836	PANEL, DISPLAY MOUNT	1	-- ITEMS NOT SHOWN --			
02	L70501	RIVET, REMOVABLE	4	--	L64078	DUAL-RATE ALARM (buzzer)	1
03	210927	DISPLAY, CAN & INSTRUMENTS	1	--	L70068	HOLE PLUG, 7/16"	AR
05	101492	PLASTIC, UPPER STEER COL.	1	--	L70069	HOLE PLUG, 1/2"	AR
06	101550	SCREW, 1/4"-20x3/4" PHILLIPS	32	(Load Chart)			
07	L69825	BINDING POST & SCREW	2	--	L69402	PLATE, LOAD CHART	10
08	101491	PLASTIC, LOWER STEER COL.	1	--	L63887	U-BOLT 1/4"	2
09	50380377	PLASTIC, DASH	1	--	L50051	1/4" NUT	4
10	101493	PLASTIC, RH CONSOLE	1	(Wiring Harness)			
11	L70017	PLUG, 2.25 " HOLE	1	--	50380324	CANOPY WIRE HARNESS.	1
12	101524	PLUG, 3.0" HOLE	2	--	L500748	DIODE PACK, 3 DIODES	2
13	101494	PLASTIC, REAR DECK.	1	--	L500747	DIODE PACK, CLEAR COVER.	2
14 ^c	101528	COVER, RECIRC VENT HOLE.	1	<i>(Attaches to fuse box and runs under the dash.)</i>			
15	L70486	SCREW, 1/4"-20x1" BLK	2	--	103160	DOME LIGHT HARNESS	1
16	L50051	NUT, 1/4"-20 WHIZ LOCK ZP	2	--	103161	DOME LIGHT GROUND WIRE.	1
17	L71709	BEZEL, 7 HOLE SWITCH	2	(Wire Harness - Frame)			
18	L71075	SWITCH, STEER MODE.	1	--	50380328	FRAME WIRE HARNESS.	1
19	210420	SWITCH, AXLE ALIGNMENT	1	(Wire Harness - Engine)			
20 ^a	L71082	SWITCH, LIGHTS	1	--	50380330	WIRE HARNESS, ENGINE	1
21 ^a	L71077	SWITCH, HAZARD LIGHTS	1	--	50380323	WIRE HARNESS, THROTTLE	1
22 ^a	L71084	SWITCH, TURN SIGNALS	1	--	50380315	WIRE HARNESS, FUEL 14"	1
23 ^a	L71083	SWITCH, BEACON	1	--	50380463	WIRE HARNESS, FUEL 6"	1
24	L71691	SWITCH, WORK PLATFORM.	1	(Wire Harness - Transmission)			
25 ^a	50380314	SWITCH, DPF CONTROL	1	--	105103	CONTROL VALVE HARNESS.	1
26	L71086	SWITCH, CLUTCH CUT-OUT.	1	--	106001	RECEPTACLE/CAN TERMINATE.	1
27 ^a	L71076	SWITCH, WIPER-WASHER	1	--	105104	APC CONTROLLER HARNESS.	1
28 ^a	L71076	SWITCH, WIPER-WASHER	1	<i>(refer to page 78)</i>			
29 ^a	L71078	SWITCH, FAN SPEED	1	(Use part number L71088 (Switch Hole Plug) when switch is not present.)			
30 ^a	L71080	SWITCH, HEATER & A/C	1	(Heater Control w/Cable (item 35) and the knob (item 41) are used on units equipped with a heater or the air conditioning option.)			
	L71079	SWITCH, HEATER ONLY	1	(If equipped with heater or air conditioning, refer to refer to next page, item 31.)			
31	L71074	SWITCH, PARK BRAKE	1				
32	101278	SWITCH, ENGINE FAULT.	1				
33	089069	IGNITION SWITCH	1				
	089070	KEY ONLY.	1				
34	L41848	START PUSH BUTTON	1				
35 ^b	101378	HEATER CONTROL W/CABLE.	1				
		<i>(does not include knob—item 41)</i>					
36 ^a	L71072	SWITCH, OUTRIGGER (left)	1				
37	L71071	SWITCH, FRAME LEVEL	1				
38 ^a	L71073	SWITCH, OUTRIGGER (right)	1				
39	50380243	INDICATOR, DPF STATUS	1				
40	106001	CAN / TERMINATE RECEPTACLE.	1				
41 ^b	136304	KNOB <i>(not included with item 35)</i>	1				



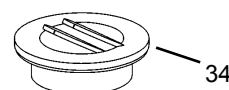
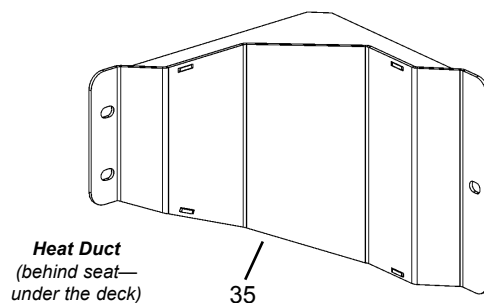
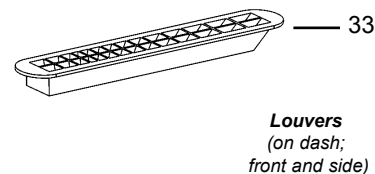
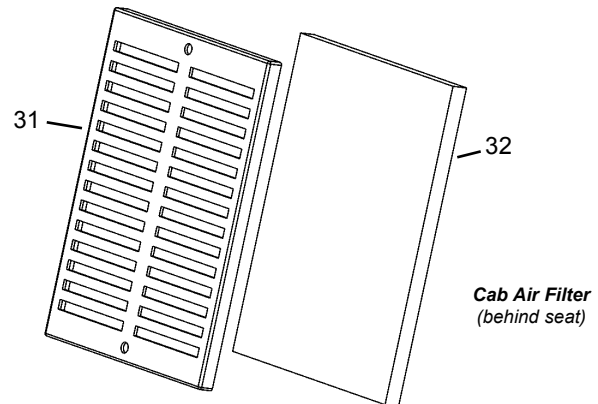
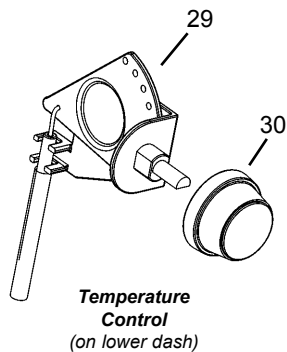
Cab Heater (No Air Conditioning)

DL7/ DL9/ DL11/ DL12



Heater (No Air Conditioning)

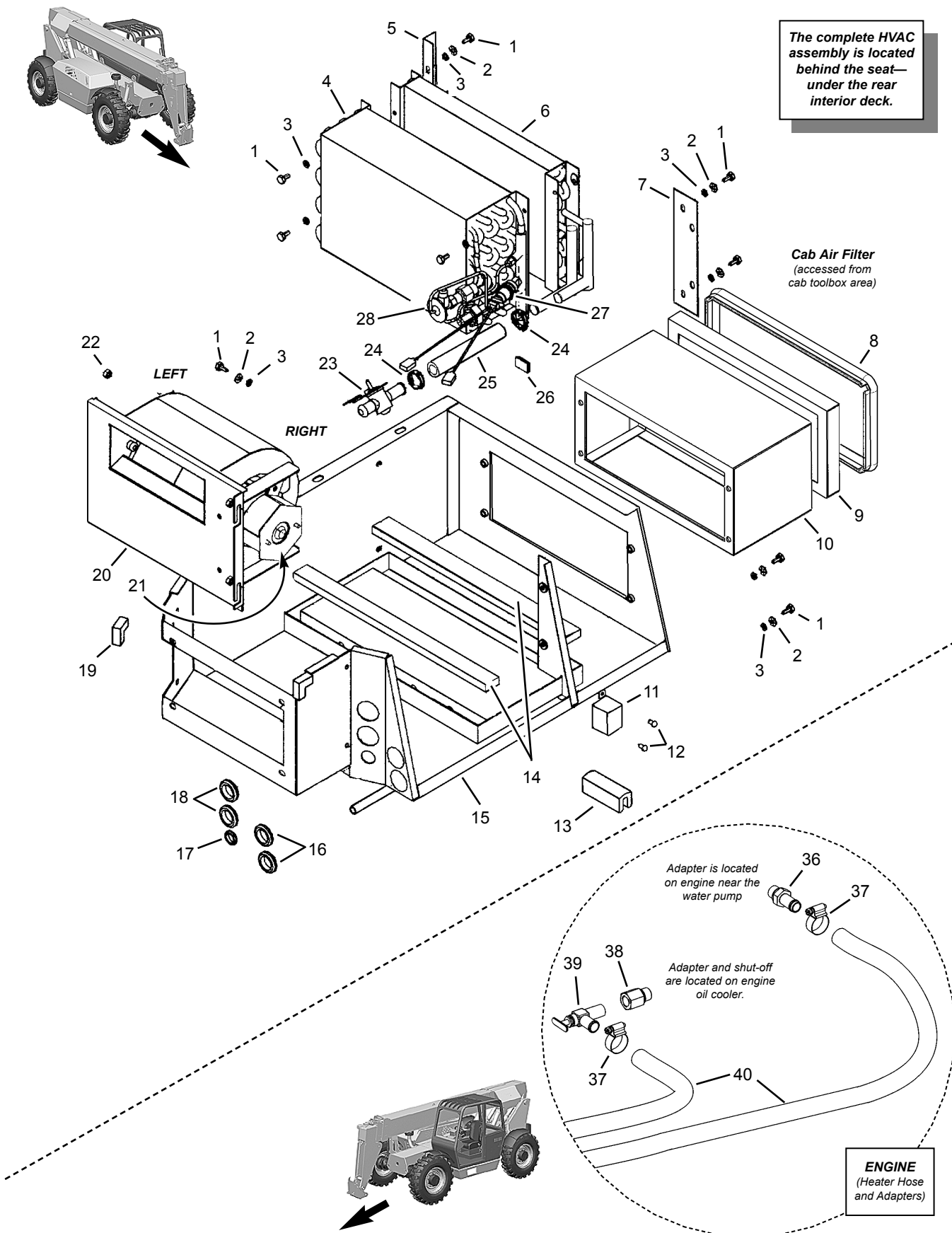
Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	L500157	1/4"-20x1/2" BOLT	11	25	L500150	HOSE, HEATER	1
02	654002	1/4" FLAT WASHER	8	29	101378	HEATER CONTROL W/CABLE.	1
03	654022	1/4" LOCK WASHER	11			(does not include knob ; item 30)	
05	L500152	BRACKET, COIL (left)	1	30	136304	KNOB.	1
06	L500162	COIL, HEATER	1	31	101849	COVER, RECIRC FILTER.	1
07	L500151	BRACKET, COIL (right)	1	32	101848	RECIRCULATING FILTER	1
08	101841	HOUSING BULB SEAL	1	33	L500059	LOUVER, FIXED VAIN.	1
09	101843	FILTER.	1	34	137502	LOUVER, ROUND 3"	2
10	101840	FILTER HOUSING.	1	35	101650	HEATER DUCT	1
13	L500147	STRIP, TRIM	1		651602	CS 1/4"-20x3/4" (not shown)	3
15	101825	MAIN HOUSING	1	36	L447005	ST HB10-ISO6149-18	1
16	L500160	GROMMET, 1-3/8"x1"	3	37	095955	CLAMP, HOSE #10	4
17	L500159	GROMMET, 7/8"x5/8"	1	38	L69718	ST-L FP06-ISO6149-18.	1
18	L500158	PLUG, PLASTIC 1-3/8"	2	39	L68592	SHUT-OFF, MANUAL	1
19	L500148	STRIP, WEATHERSTRIP	1	40	NSS	HEATER HOSE, 5/8" x 16'.	AR
20	L500398	ASSEMBLY, BLOWER	1				
		(includes item 21)					
21	103010	FAN MOTOR (one only)	1			-- ITEMS NOT SHOWN --	
22	L50051	1/4"-20 FLANGE NUT	4	--	L500578	WIRE HARNESS (internal)	1
23	L500163	VALVE, WATER.	1	--	101508	DECAL, HEATER CONTROL	1
24	L500161	CLAMP, HOSE	2				



Cab

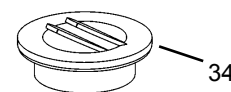
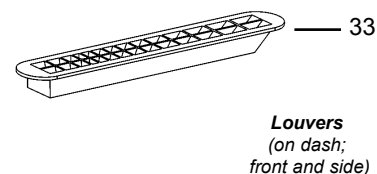
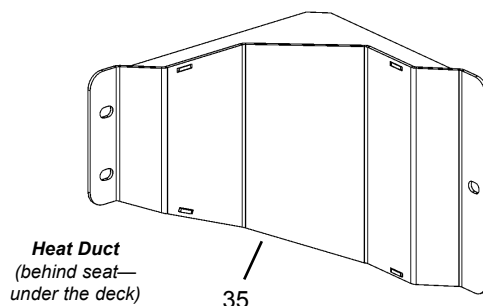
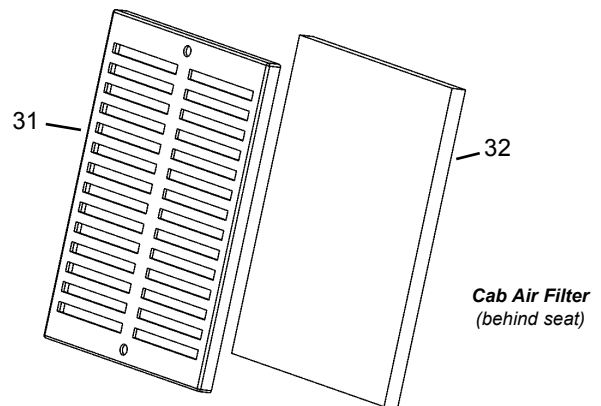
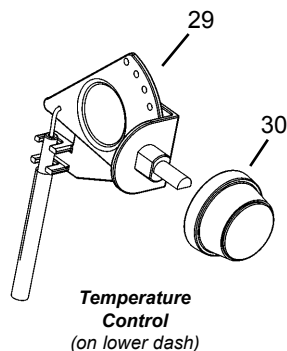
Air Conditioner and Heater (Option)

DL Series Dynalift



Air Conditioner and Heater (Option)

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	L500157	1/4"-20x1/2" BOLT	11	26	L500574	MOUNTING CLIP	1
02	654002	1/4" FLAT WASHER	8	27	L500666	LOW PRESSURE SWITCH	1
03	654022	1/4" LOCK WASHER	11	28	L500403	VALVE, EXPANSION	1
04	L500576	EVAPORATOR COIL, 6 ROW	1		L500665	O-RING #4 (not shown)	1
05	L500152	BRACKET, COIL (left)	1		138778	O-RING #8 (not shown)	1
06	L500162	COIL, HEATER	1	29	101378	HEATER CONTROL W/CABLE (does not include knob — item 30)	1
07	L500151	BRACKET, COIL (right)	1				
08	101841	HOUSING BULB SEAL	1	30	136304	KNOB	1
09	101843	FILTER	1	31	101849	COVER, RECIRC FILTER	1
10	101840	FILTER HOUSING	1	32	101848	RECIRCULATING FILTER	1
11	138623	COLD CONTROL, PRE-SET	1	33	L500059	LOUVER, FIXED VAIN	1
12	L500570	SEMS SCREW	2	34	137502	LOUVER, ROUND 3"	2
13	L500147	STRIP, TRIM	1	35	101650	HEATER DUCT	1
14	L500580	DRAIN FOAM	2		651602	CS 1/4"-20x3/4" (not shown)	3
15	101825	MAIN HOUSING	1	36	L447005	ST HB10-ISO6149-18	1
16	L500160	GROMMET, 1-3/8"x1"	3	37	095955	CLAMP, HOSE #10	4
17	L500159	GROMMET, 7/8"x5/8"	1	38	L69718	ST-L FP06-ISO6149-18	1
18	138563	GROMMET, 1-1/4"x7/8"	2	39	L68592	SHUT-OFF, MANUAL	1
19	L500148	STRIP, WEATHERSTRIP	1	40	NSS	HEATER HOSE, 5/8" x 16'	AR
20	L500398	ASSEMBLY, BLOWER (includes item 21)	1				
21	103010	FAN MOTOR (one only)	1	--	L500578	WIRE HARNESS (internal)	1
22	L50051	1/4"-20 FLANGE NUT	4	--	L500575	WIRE ASSEMBLY (low pressure switch/cold control)	1
23	L500163	VALVE, WATER	1	--	101508	DECAL, HEATER CONTROL	1
24	L500161	CLAMP, HOSE	2				
25	L500150	HOSE, HEATER	1				

-- ITEMS NOT SHOWN --

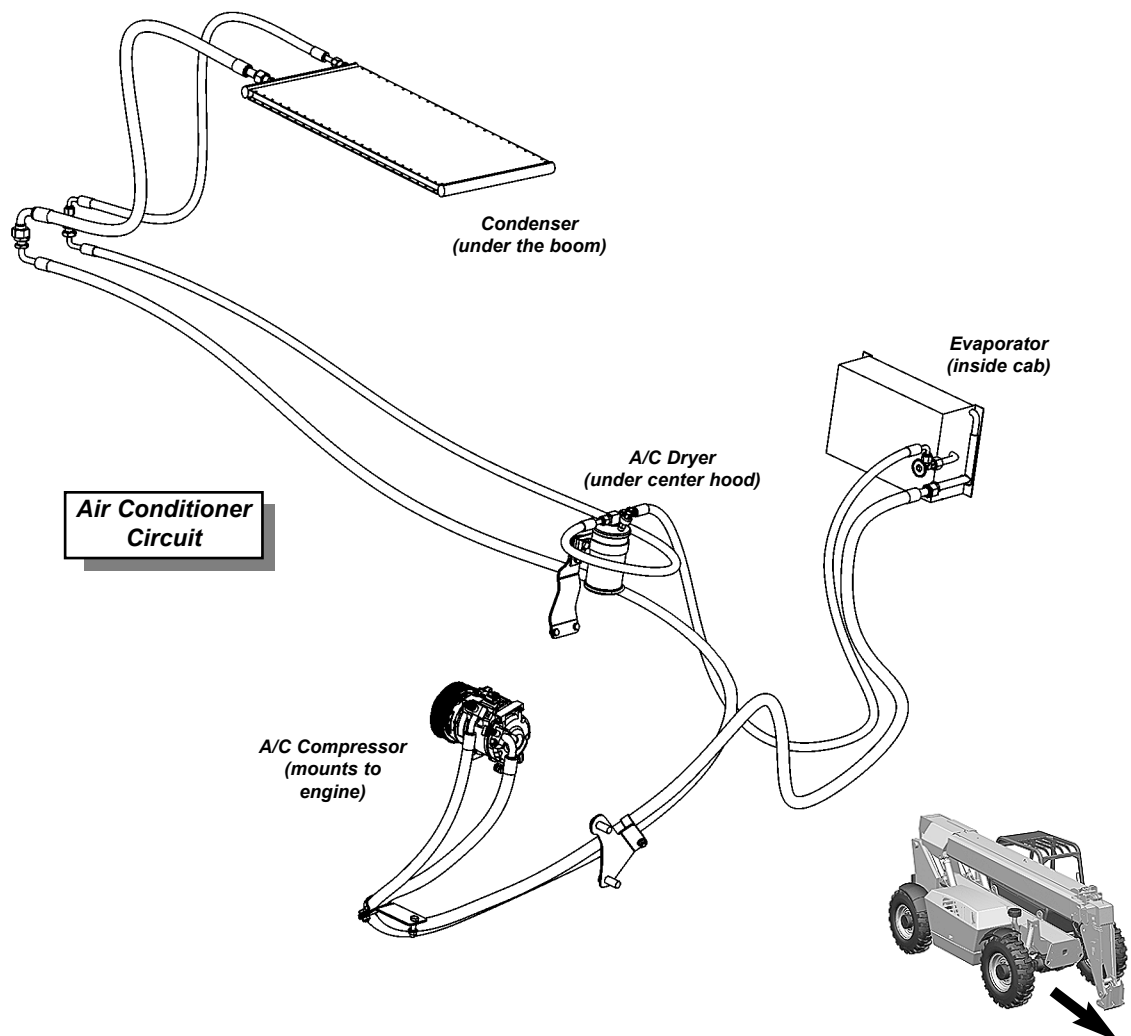
DL Series Dynalift



Air Conditioning Circuit (Option)

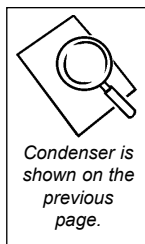
Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	L71754	HOSE, A/C 13/32"x66"	1	17	L71716	HOSE, A/C 5/16"x102"	1
02	L71755	HOSE, A/C 5/16"x66"	1	18	138649	A/C DRYER.....	1
03	138778	O-RING, #8.....	AR	19 ^a	50380423	A/C COMPRESSOR (<i>only</i>)	1
04	138777	O-RING, #6.....	AR	20	271341	CLAMP, VINYL 1" x 0.41" (<i>double</i>) .	2
05	L500595	CONDENSER COIL	1	21	50380456	MOUNT, HOSE CLAMP	1
06	L500576	EVAPORATOR COIL.....	1	22	L50305	CS M16-2 x 35 C8.8 ZY	2
07	L70798	HOSE ASSEMBLY, 5/16"x72"	1	23	50380455	MOUNT, HOSE CLAMP	1
08	50380441	HOSE, AC #10.....	1	24	650533	CS 3.8" x 1-1/2" C5ZY.....	1
09	L500403	A/C EXPANSION VALVE.....	1	25	651759	CS FL M6-1.0 x 20 C8.8 ZY	2
10	138714	A/C BINARY SWITCH.....	1	26	50380446	O-RING, A/C #10 (denso port).	1
11	138651	CLAMP, DRYER	1	27	50380445	O-RING, A/C #8 (denso port).	1
12	650491	CS 4/8" x 1-1/4" C5ZY.....	1	28	50380442	HOSE, A/C #8	1
13	650488	CS 3/8" x 3/4" C5ZY	3	29	138779	O-RING #10	AR
14	090666	HN FL SLOC 3/8" CZY.....	AR				
15	50380481	MOUNT, A/C DRYER	1				
16	650484	CS 5/16" x 1/2" C5ZY	2				

a A/C Compressor only, does not include bushings, mounting fittings, or hardware.

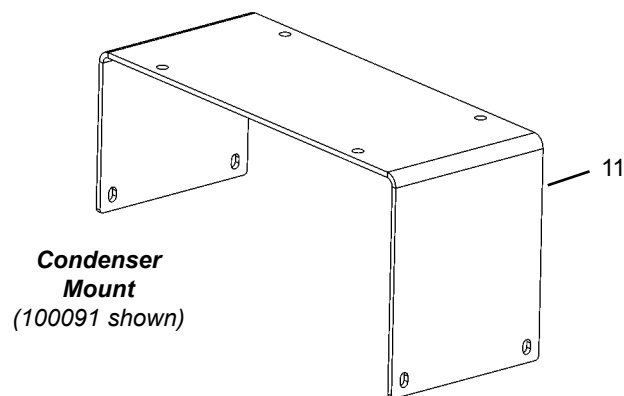
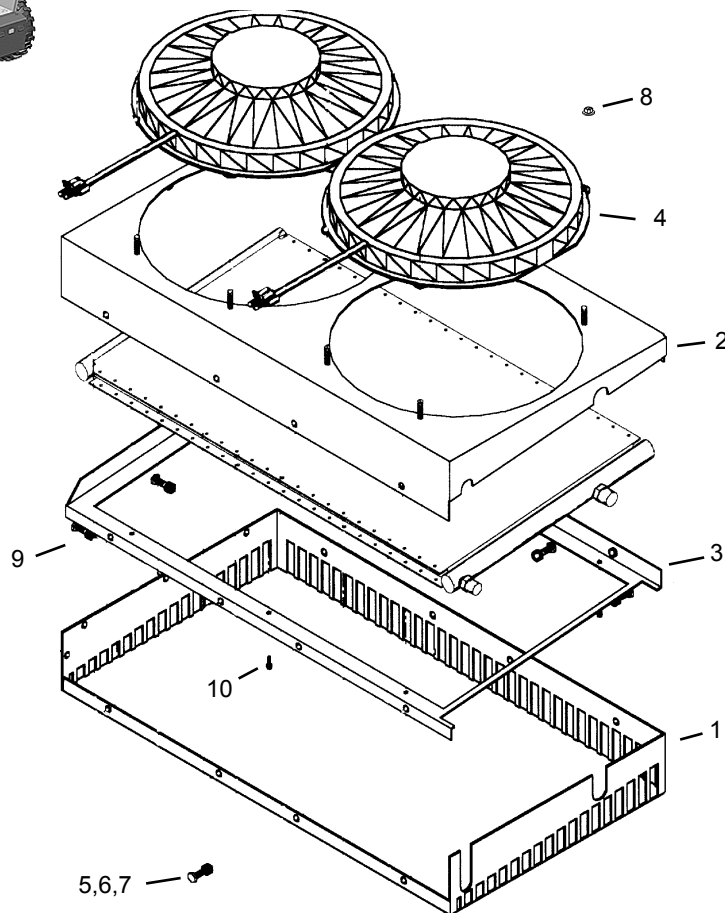




Condenser
(Mounts to the under-
side of the boom.)



Condenser is
shown on the
previous
page.



**Condenser
Mount**
(100091 shown)

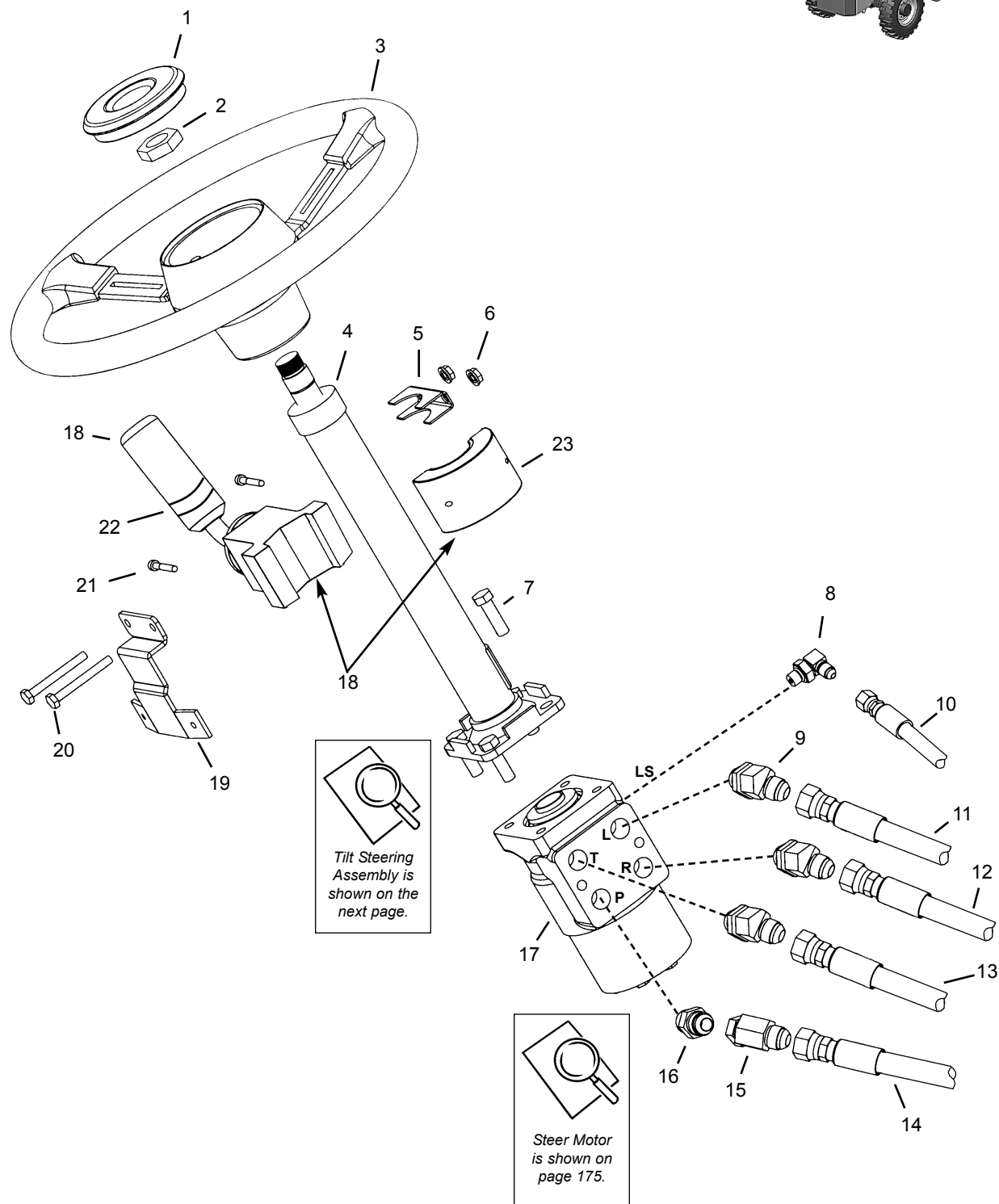
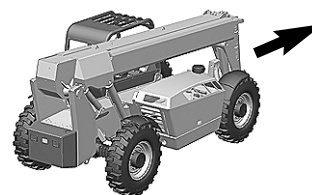
Air Conditioner - Condenser

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
--	L71520	A/C CONDENSER (<i>complete</i>)	1	09	L500595	CONDENSER COIL	1
01	L500591	CONDENSER BASE PLATE	1	10	L500596	SHEET METAL SCREW	6
02	L500592	CONDENSER TOP PLATE	1	11		CONDENSER MOUNT	1
03	L500593	CONDENSER COIL PLATE	1		100091	3-Section high boom (<i>shown</i>)	
04	L500594	CONDENSER FAN ASSEMBLY	2		100501	4-Section high boom (<i>not shown</i>)	
05	L50236	1/4"-20X1/2" BOLT	12				
06	654002	1/4" FLAT WASHER	12			-- ITEMS NOT SHOWN --	
07	654022	1/4" LOCK WASHER	1	--	L71720	WIRE HARNESS, CONDENSER . . .	1
08	L50051	1/4"-20 SERRATED FLANGE NUT . . .	8	--	L70075	RELAY	1

Cab

Steering Column Group

DL Series Dynalift



Steering Column Group

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	L69596	HORN BUTTON	1	16	L64524	CHECK VALVE	1
02	L41261	COLUMN NUT.....	1	17	101881	STEER MOTOR ASY.....	1
03	L69595	STEERING WHEEL	1	18	L69012	F-N-R/1-2-3-4 SHIFTER.....	1
04	L70120	STEERING COLUMN	1			<i>(includes item 23)</i>	
05	P054800	MUFFLER CLAMP BRACKET	1		L99425	BOOT, SHIFTER	1
06	L50051	1/4"-20 FLANGE NUT	2	19	L500080	STEER COL. MT. BRACKET	1
07	651625	3/8-16X1-1/4" BUTTN HD BOLT...	4	20	650839	1/4-20X2-1/4" BOLT	2
08	095601	ADAP., -4ORM -4JICM	1	21	L50101	M5-.8X35 MM SHCS.....	2
09	076880	ADAP., -8ORM -8JICM 45°	3	22	L500439	DECAL, SHIFTER 1-2-3-4.....	1
10	L69925	HOSE, -4 A4/A6 92"	1	23	105236	SHIFTER CLAMP <i>(only)</i>	1
11	L69935	HOSE, -6 A8/A6 108"	1			<i>(included with item 18)</i>	
12	210603	HOSE, -6 A8/A8 108"	1			-- ITEMS NOT SHOWN --	
13	L69933	HOSE, -6 A8/A6 60"	1				
14	L69934	HOSE, -6 A8/DS8 88"	1	--	L70045	HORN, 12VDC	1
15	069194	ADAP., -8JICFS -8JICM SWVL....	1				

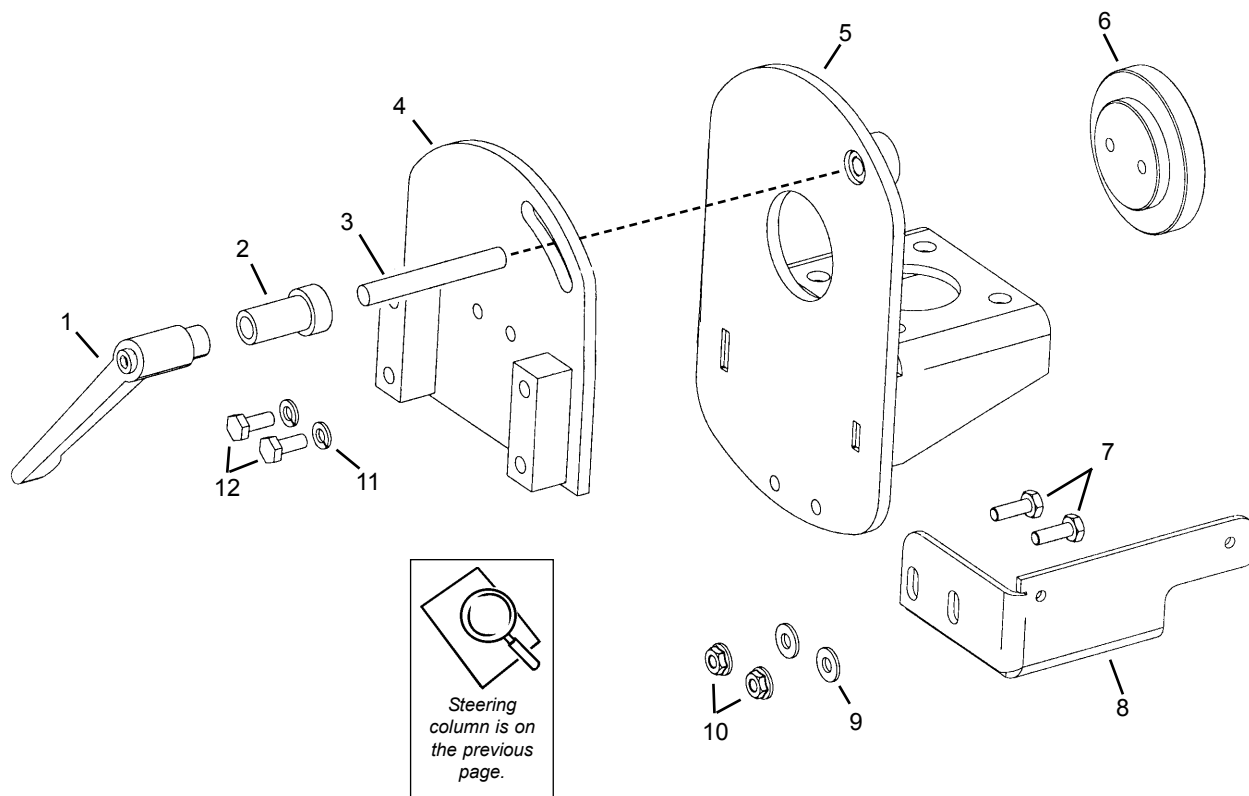
Hose Locator

Ref No.	From Port	To Port
10	STEER MOTOR "LS" (IN CAB)	LEVEL VALVE "LSB"
11	STEER MOTOR "L" (IN CAB)	STEER SELECT VALVE "P"
12	STEER MOTOR "R" (IN CAB)	FRONT AXLE STEER CYLINDER (RIGHT PORT)
13	STEER MOTOR "T" (IN CAB)	HYDRAULIC TANK RETURN MANIFOLD
14	STEER MOTOR "P" (IN CAB)	HYDRAULIC PUMP

Cab

Steering Column - Tilt Assembly

DL Series Dynalift



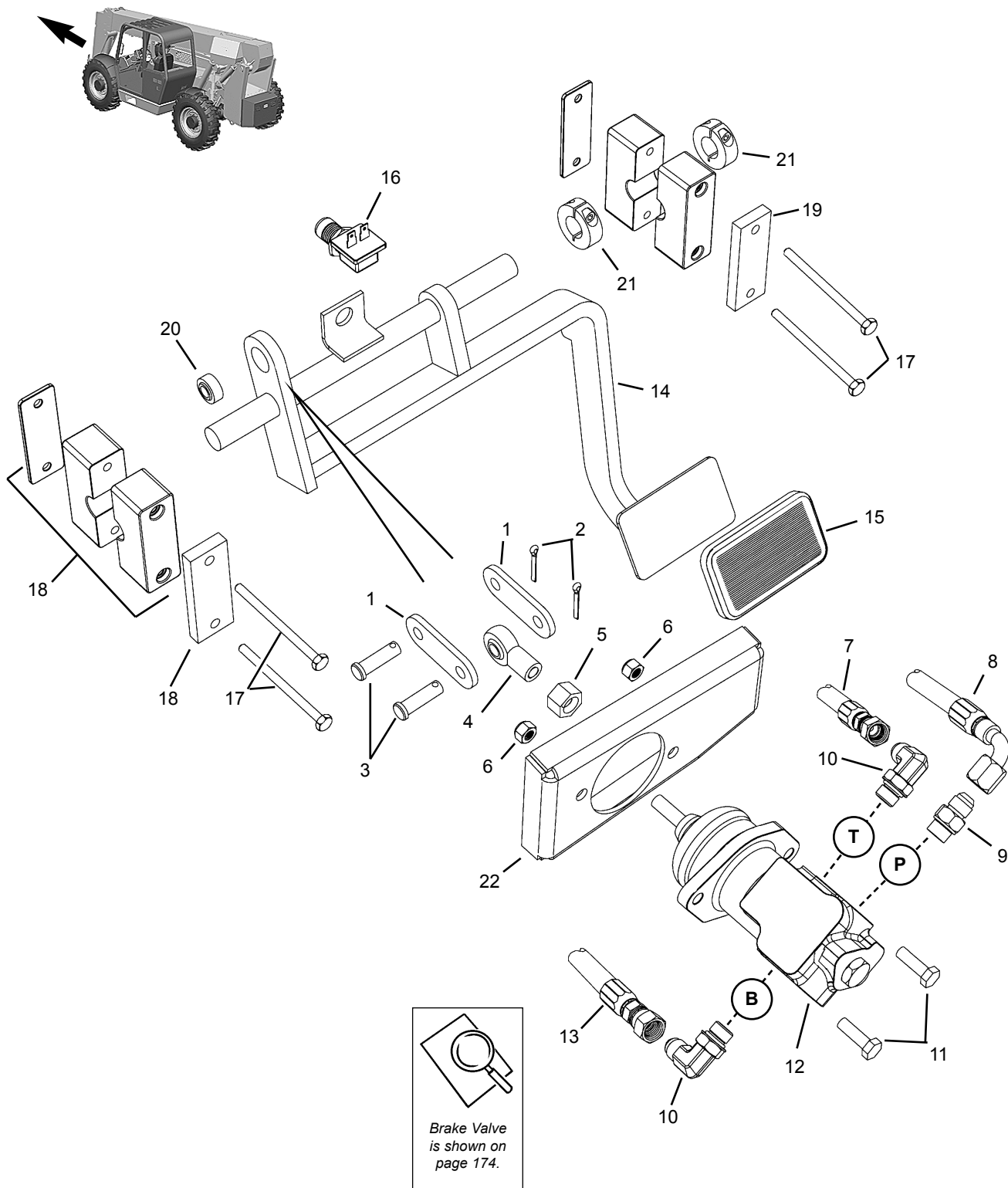
Steering Column - Tilt Assembly

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	105758	HANDLE, QUICK-RELEASE.....	1	07	650448	1/4"x3/4" BOLT	2
02	105757	COMPRESSION SLEEVE.....	1	08	L500081	STEER BRACKET, REAR.....	1
03	105756	STUD, 3/8"-16x3"	1	09	654002	1/4" FLAT WASHER	2
04	210019	STEERING MOUNT	1	10	L50051	1/4" FLANGE LOCK NUT	2
05	105753	STEER COLUMN MOUNT	1	11	654022	1/4" LOCK WASHER.....	2
06	L69101	PIVOT	1	12	650663	1/4"x5/8" BOLT	2

Cab

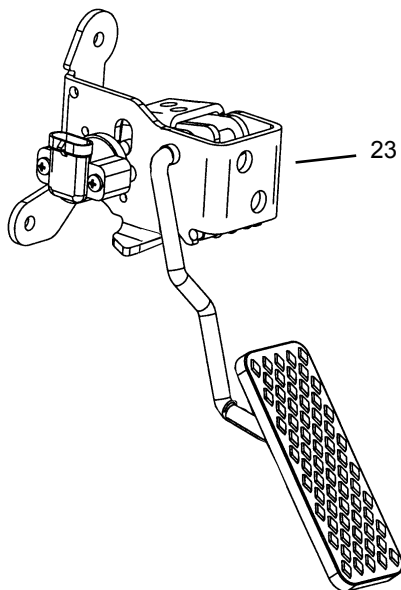
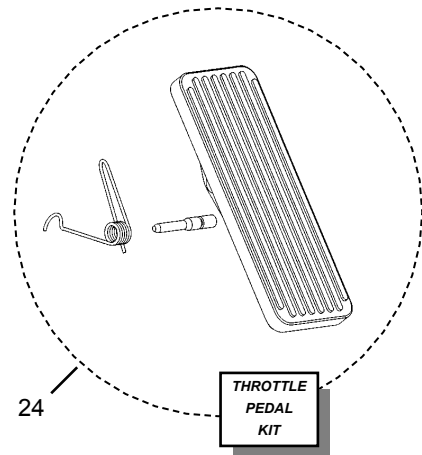
Pedals - Brake and Throttle

DL Series Dynalift

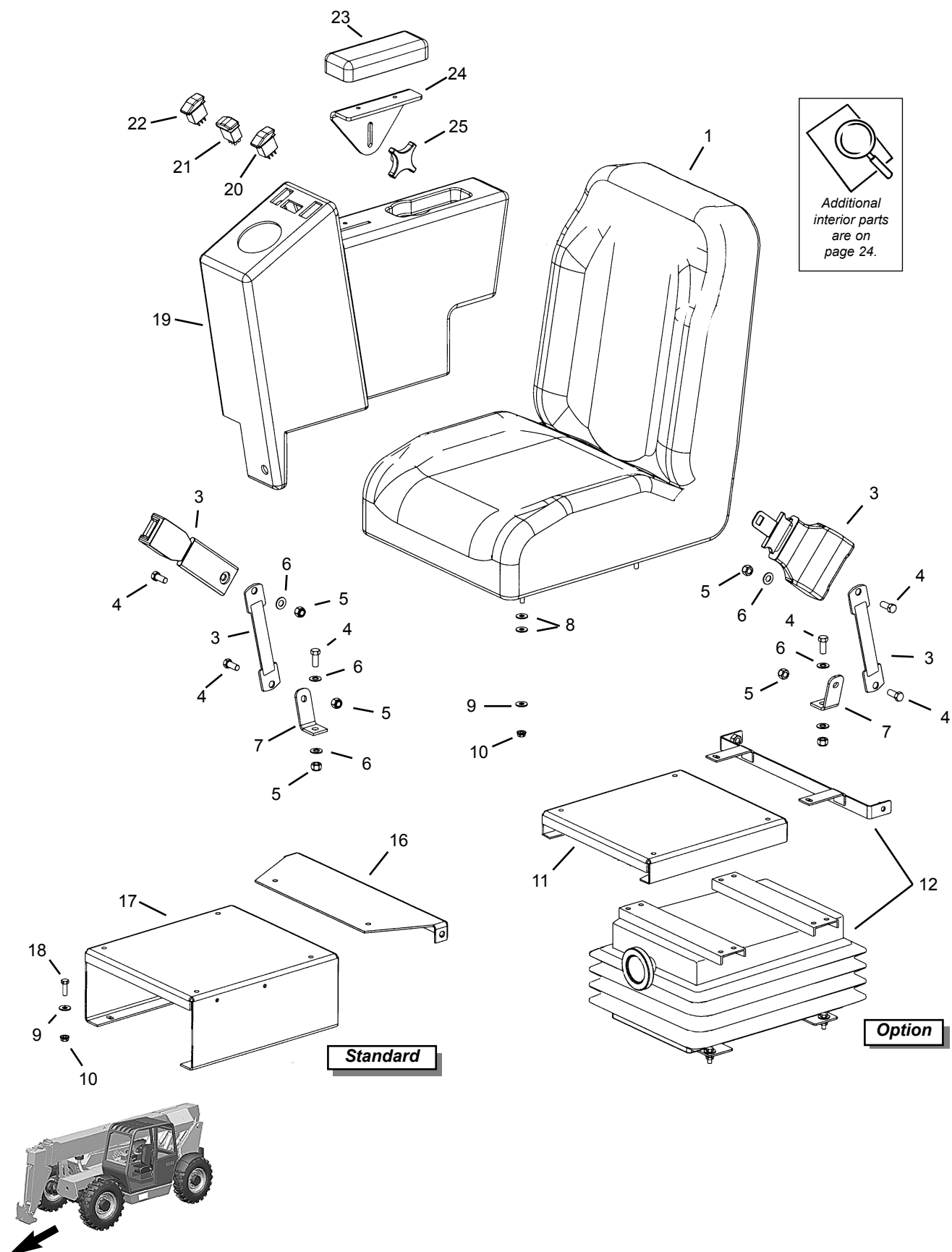


Pedals - Brake and Throttle

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	L70184	LINK.....	2	14	L69590	BRAKE LEVER WELD.	1
02	655006	COTTER PIN 1/8"x1".....	2	15	L69789	RUBBER PAD	1
03	005073	CLEVIS PIN 3/8"x1-1/4"	2	16	L64890	ELECTRIC SWITCH	1
04	L70183	ROD END 3/8".....	1	17	L50217	1/4"-20x3-1/2" BOLT	4
05	50380611	SPACER/JAM NUT 3/8"-24 UNF ..	1	18	L70248	CLAMP BLOCK AND PLATE	2
06	L520004	5/16"-18 NYLON INSERT NUT	2	19	L70250	CLAMP SPACER.....	2
07	L69927	HOSE, -4 A6/A6 81"	1	20	L70435	BUSHING	1
08	L69926	HOSE, -4 A6/DS6 100"	1	21	L70558	LOCK COLLAR	2
09	054994	ADAP., -6ORM -6JICM STR	1	22	50380619	BRAKE MOUNT SUPPORT	1
10	068938	ADAP., -6ORM -6JICM 90°	2	23	50381115	FOOT PEDAL, ELECTRONIC.....	1
11	650487	5/16-18x1" BOLT	2	24	107001	KIT, THROTTLE PEDAL	1
12	L69572	BRAKE MODULATING VALVE	1			(Includes pedal, pin, and spring—	
13	L69929	HOSE, -4 A6/A4 102"	1			does not include electronic throttle.)	

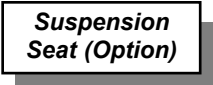
**Electronic Throttle****Hose Locator**

Ref No.	From Port	To Port
07	BRAKE MODULATING VALVE "T"	HYDRAULIC TANK RETURN MANIFOLD
08	BRAKE MODULATING VALVE "P"	SAHR VALVE "AO"
13	BRAKE MODULATING VALVE "B"	BRAKE MANIFOLD (BOTTOM PORT)



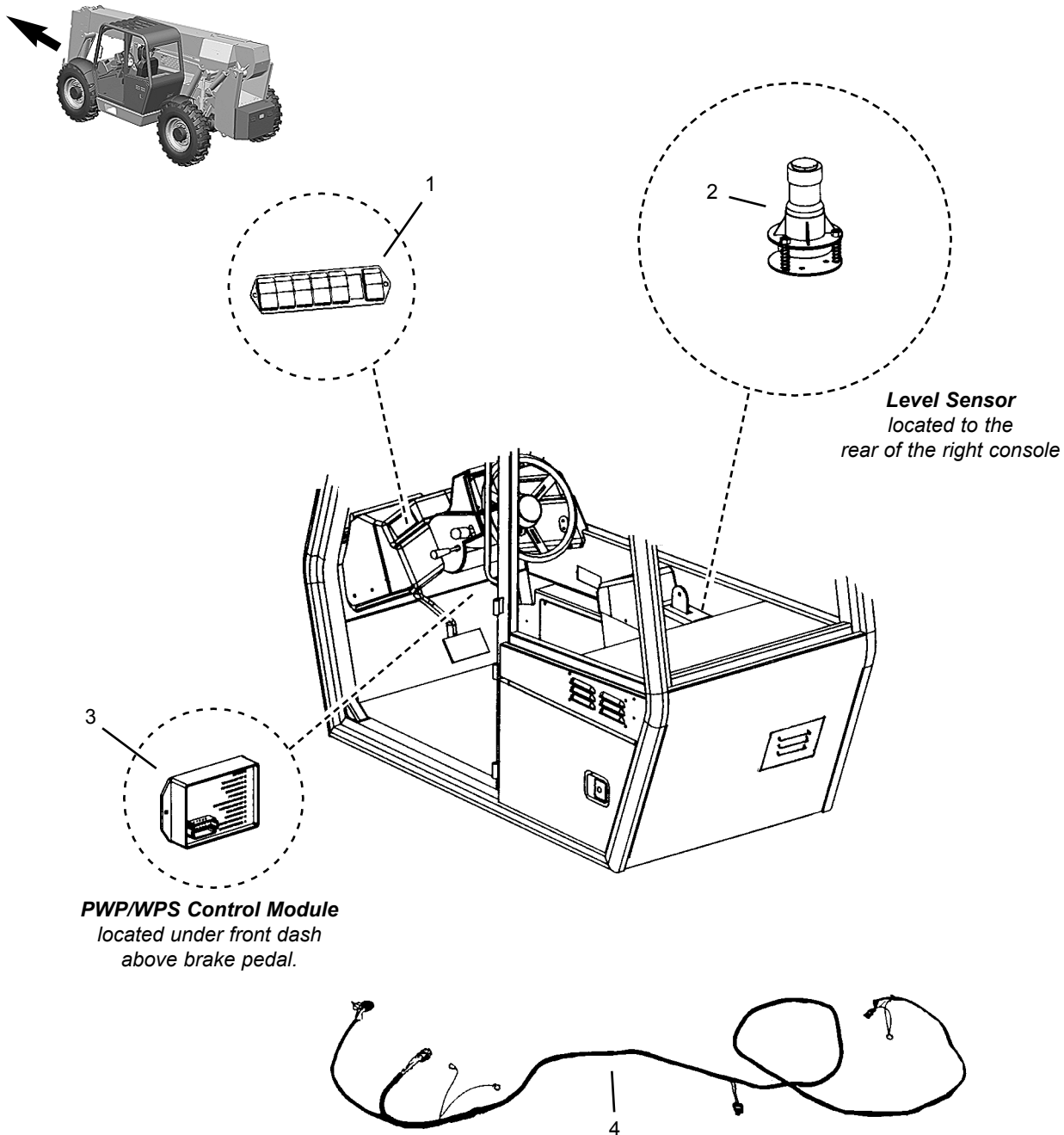
Cab Seat

- a Suspension seat (option)
- b Standard seat
- c Use L71088 (Switch Hole Plug) when switch is not present.

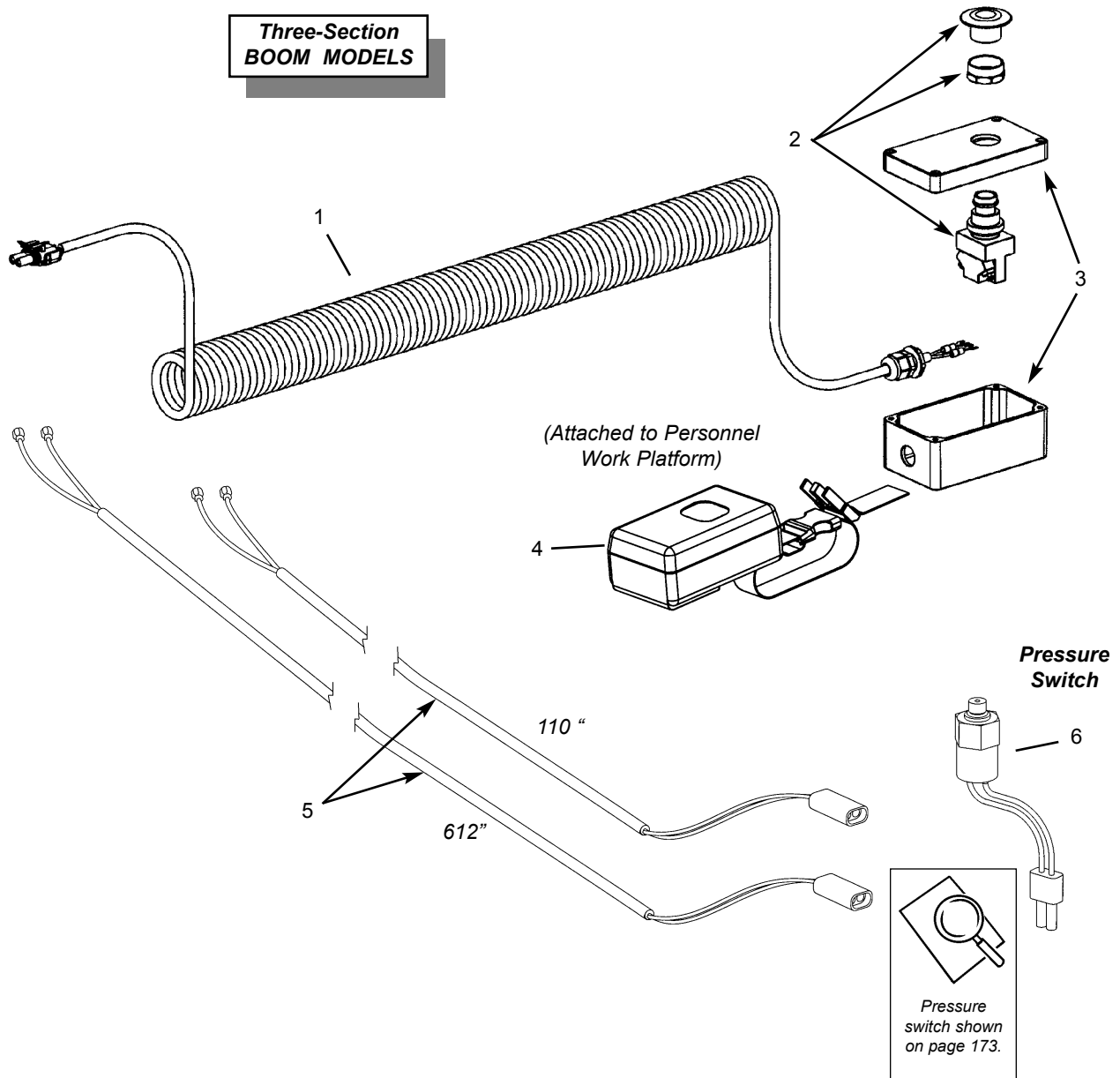


Personnel Work Platform System Cab Components

DL Series Dynalift

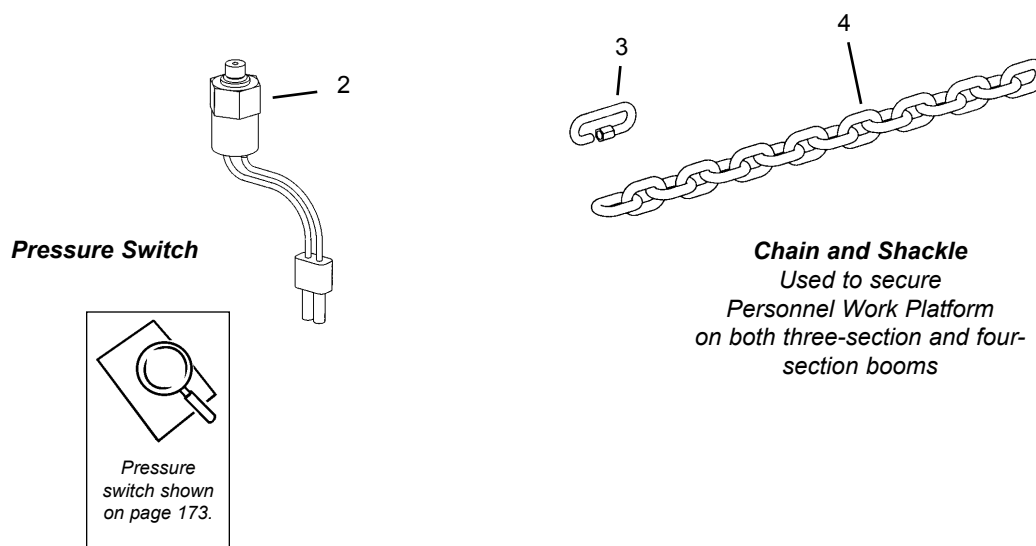
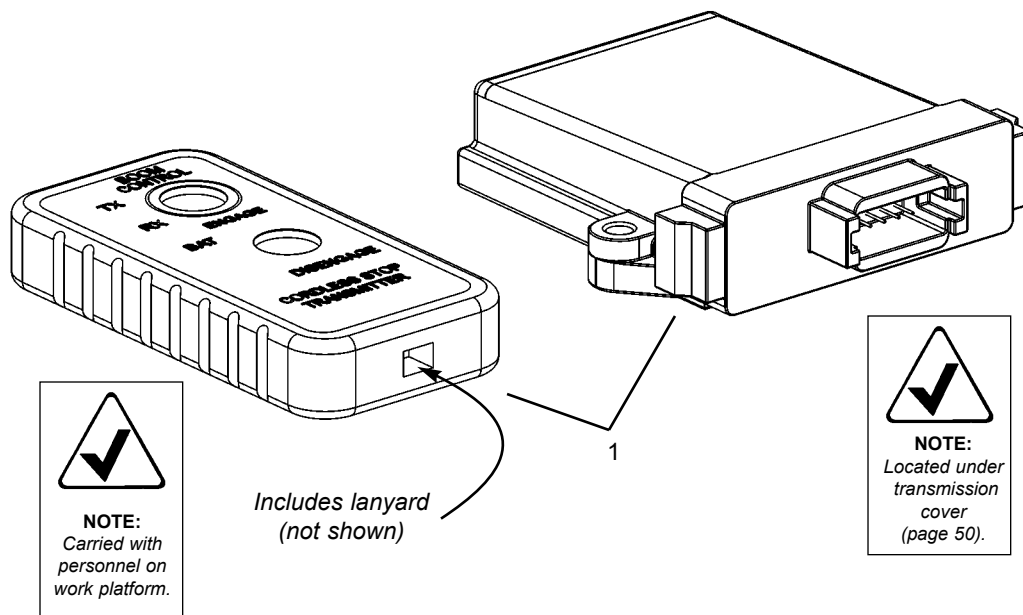


Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01 ^a	L71691	WORK PLATFORM SWITCH	1	03	104078	CONTROL MODULE.....	1
02	50381128	LEVEL SENSOR, KIT	1	04	104065	WIRE HARNESS, PWP/WPS	1
				<i>a When not equipped with PWP use L70017 plug.</i>			



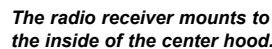
Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
00 ^a	L71729	REMOTE SWITCH W/CABLE. 1 (Includes items 1-3)	1	04	L71750	REMOTE SWITCH POUCH 1	1
01	102408	CABLE ASSEMBLY 1	1	05	L71732	REMOTE SWITCH HARNESS 1 (consists of two cables)	1
02	L71726	REMOTE STOP SWITCH 1	1	06	L70415	PRESSURE SWITCH 1	1
03	L71725	REMOTE SWITCH ENCLOSURE. . 1	1				

Four-Section BOOM MODELS

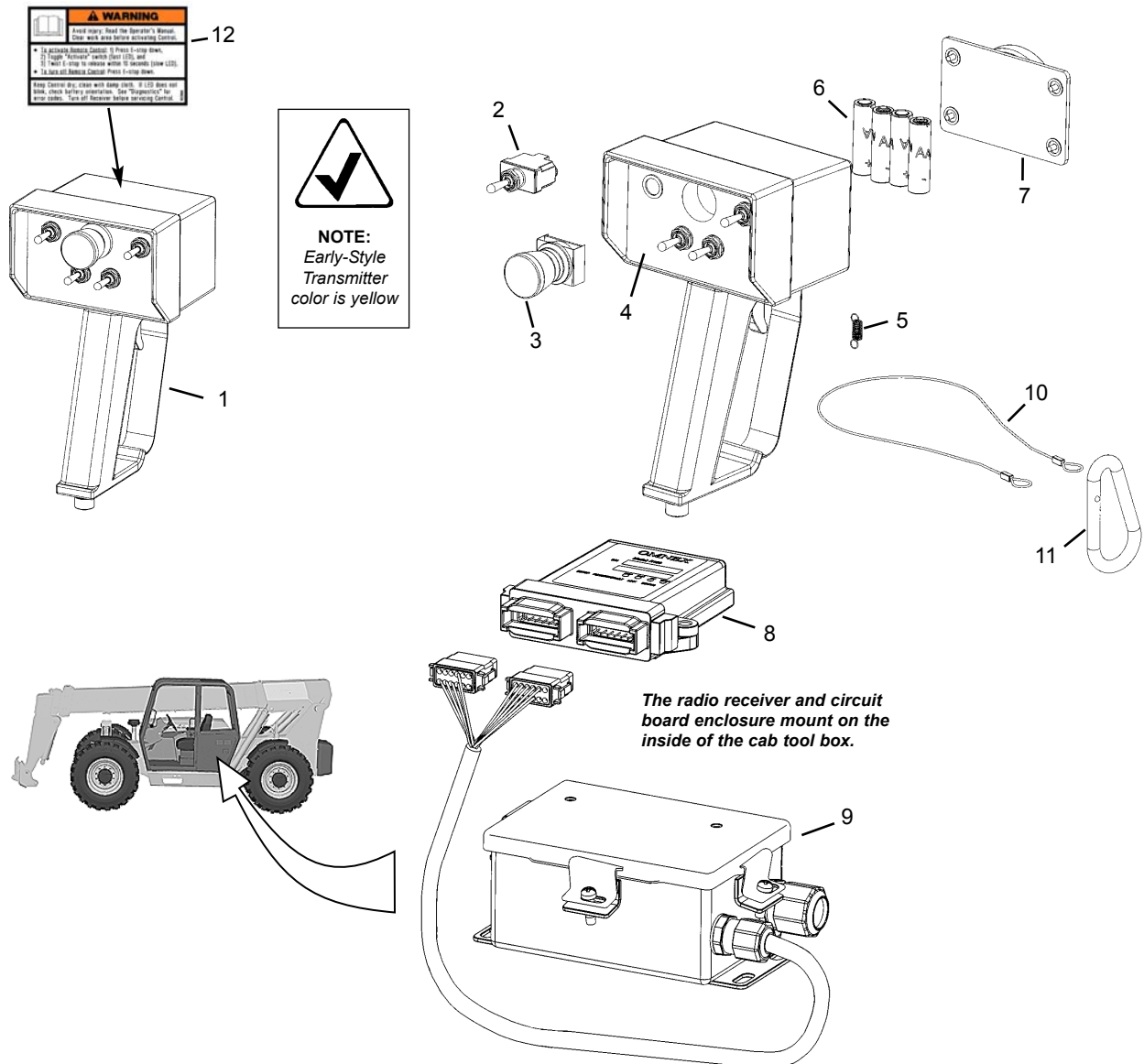


Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01 ^a	50380625	SYSTEM/RADIO E-STOP 1 (Transmitter and Receiver)		--	102655	-- ITEMS NOT SHOWN -- RADIO REMOTE HARNESS 1 (E-Stop receiver)	
02	L70415	PRESSURE SWITCH 1					
03 ^b	L71752	5/16" CHAIN SHACKLE 1					
04 ^b	L71751	5/16" CHAIN GR40 16 LINKS 1					
				<i>a</i>		<i>The transmitter and receiver are frequency-matched; therefore, it is required to purchase both as a set.</i>	
				<i>b</i>		<i>Chain shackle and chain are used to secure the Personnel Work Platform to the carrier attachment.</i>	

DL Series Dynalift



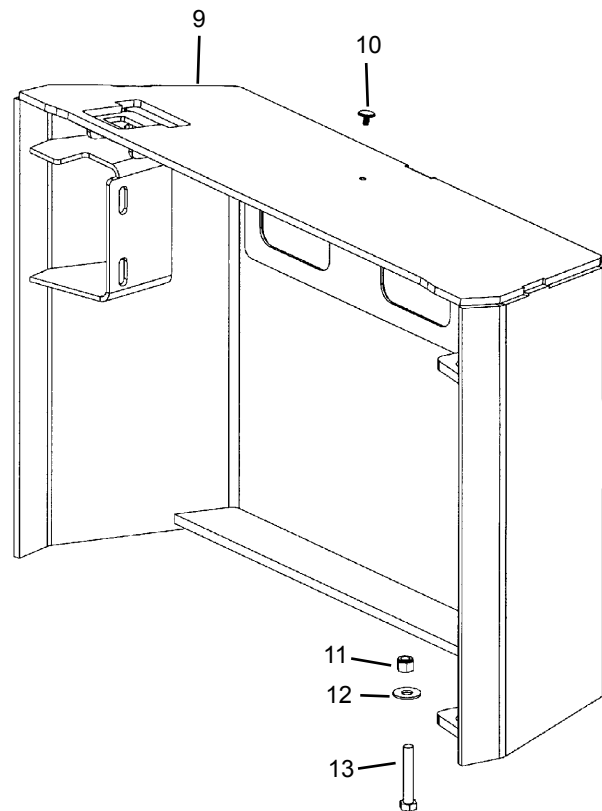
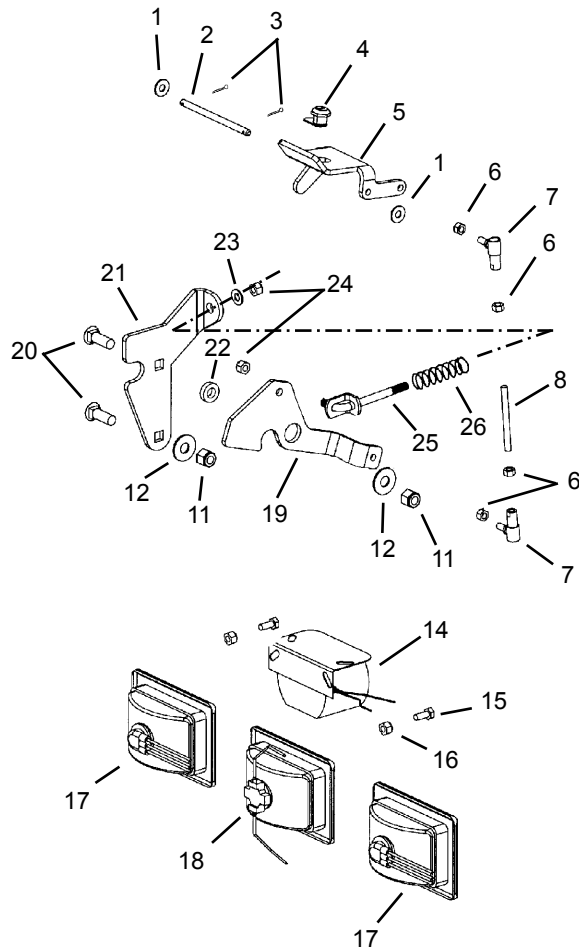
Requires programming; refer to Radio Remote Operator's Manual and Parts Manual (50960060), included with the Radio Remote Control at the time of purchase, for more information.

Radio Remote (Option) - Transmitter and Receiver - (Early Style)

Item No.	Part No.	Description	Qty. Req.	Item No.	Part No.	Description	Qty. Req.
--	103744	RADIO REMOTE, COMPLETE... 1 (Includes all items shown)	1	12	102968	DECAL, REMOTE TRANSMITTER. 1 (not included with item 1)	1
01 ^a	103479	REMOTE TRANSMITTER..... 1	1	-- ITEMS NOT SHOWN --			
02	103482	SWITCH, TOGGLE 3 POS. MIL ... 4	4	--	103099	FUSE, MINI 15 AMP 1	1
03	210867	SWITCH, E-STOP (push-button)... 1	1	--	104963	WIRE HARNESS, RAD. REMOTE . 1 (connects to existing PWP wire harness PN 104065)	1
04	104675	LABEL (not shown-switch functions) 1	1				
05	106965	SPRING, TRIGGER..... 1	1				
06	NSS	AA BATTERY..... 4	4				
07	50220061	COVER w/MAGNET & SCREWS .. 1	1				
08	103480	REMOTE RECEIVER 1	1				
09	210777	ENCLOSURE / CIRCUIT BOARD. . 1 (includes wire harness)	1				
10	103475	LANYARD (wire cable) 1	1				
11	103476	SNAP RING, LANYARD 1	1				

a

Requires programming; refer to Radio Remote Operator's Manual and Parts Manual (913236), included with the Radio Remote Control at the time of purchase, for more information.

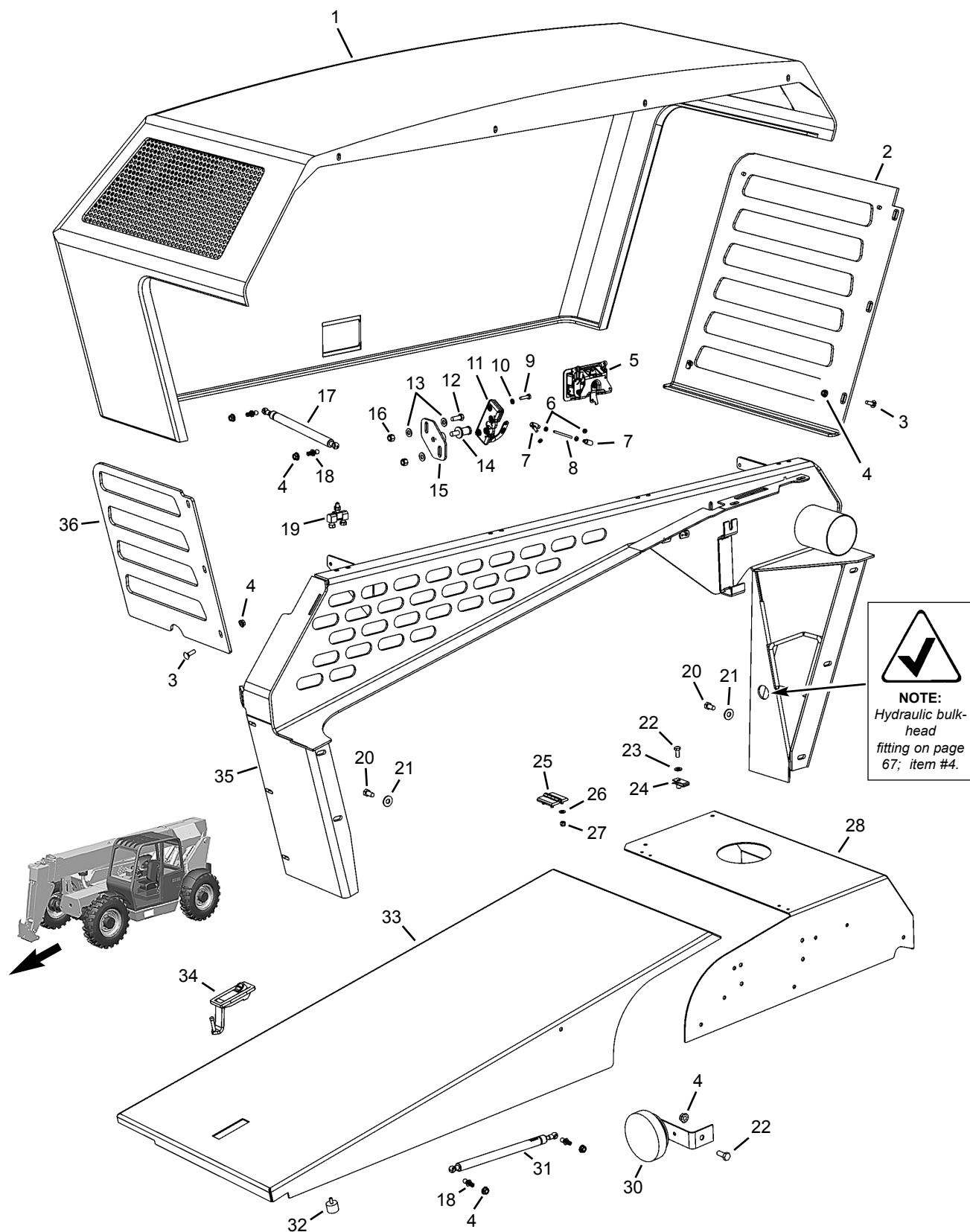


Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	654004	5/16" FLAT WASHER	2	17	L70701	TAIL LIGHT (w/connector)	2
02	L70326	PIN	1		L500339	RUBBER MOUNTING BEZEL	2
03	655006	1/8"x1" COTTER PIN	2	18	L71595	BACKUP LIGHT	1
04	L70225	CAMLOCK	1		L500606	RUBBER MOUNTING BEZEL	1
	L99157	KEY ONLY (CH751)	1		100102	JUMPER, BACKUP LIGHT	1
05	L70257	LATCH ASSEMBLY HANDLE	1	19	L70216	LATCH	1
06	651062	5/16"-24 NUT	4		L99157	KEY ONLY (CH751)	1
07	L70226	5/16"-24 BALL JOINT	2	20	650834	1/2"-13x1-1/2" CARRIAGE BOLT ..	2
08	L70227	LINKAGE ROD	1	21	L69766	LATCH MOUNT	1
09	L500657	REAR DOOR	1	22	131940	BUSHING	1
10	L71305	PLUG, REAR HOOD	1	23	654006	3/8" FLAT WASHER	1
11	L520019	1/2"-13 NYLON INSERT NUT	3	24	L520005	3/8"-16 NYLON INSERT NUT	2
12	654009	1/2" FLAT WASHER	3	25	131799	LATCH ROD ASY	1
13	L50292	1/2"-13x3" BOLT	1	26	L70009	COMPRESSION SPRING	1
14	L70200	BACKUP ALARM (107 dB)	1				
15	650486	5/16"-18x3/4" BOLT	2				
16	L50056	5/16"-18 FLARE NUT	2	--	L60587	-- ITEMS NOT SHOW -- SINGLE DIODE	AR
						(located in the wire harness, near tail lights)	

Chassis

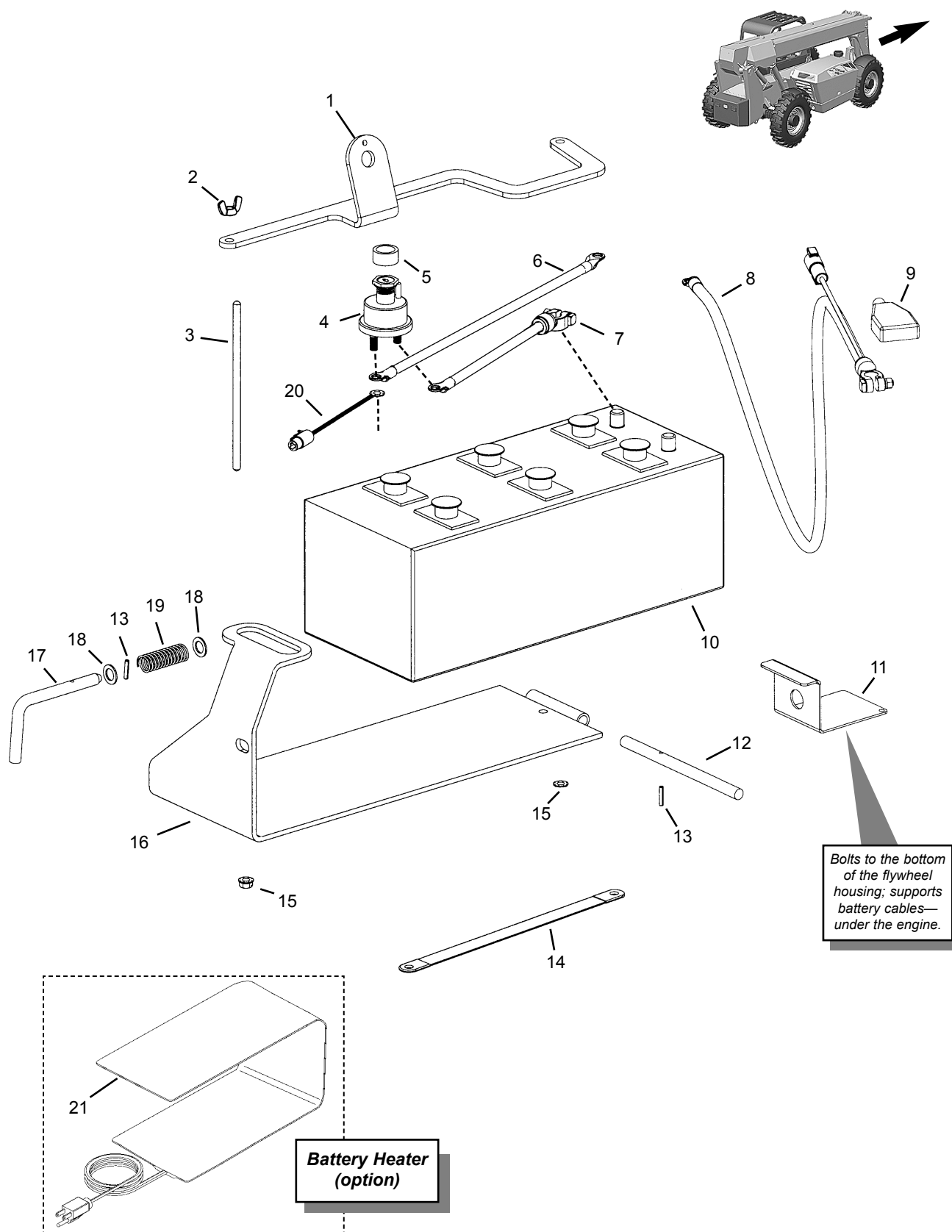
Hood - Engine and Transmission

DL Series Dynalift



Hood - Engine and Transmission

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	50380340	HOOD (<i>no hardware</i>)	1	19	L69465	HINGE	4
02	L71569	END PANEL, REAR	1	20	650488	CS 3/8" x 3/4" C5ZY	5
03	650573	5/16" x 1" CARRIAGE BOLT	6	21	654006	FW 3/8" AWZY	5
04	L50056	5/16" FLANGE LOCK NUT	AR	22	650486	CS 5/16" x 3/4"	AR
05	101422	HANDLE-PADDLE, W/KEY	1	23	650810	FW 5/16" ANZY	AR
	L99157	KEY ONLY (CH751)(<i>sold in pairs</i>) . .	1	24	L530004	FASTENER RETAIN NUT 5/16" . . .	2
06	650648	NUT, 10-32 HEX	4	25	103873	HINGE	2
07	L580009	BALL JOINT/10-32 ROD END	2	26	218439	WASHER M6 ZN	8
08	101453	ROD-LINKAGE	1	27	651457	LN INST M6-1 C8 ZY	8
09	650835	1/4"x1" BOLT	4	28	211096	REAR COVER	1
10	654022	1/4" LOCK WASHER	4	29	NA	0
11	101421	LATCH	1	30	L70045	HORN, 12 VDC	1
12	650490	3/8"x1" BOLT	2	31	104033	GAS SPRING 20 150LBS	1
13	654049	3/8" FLAT WASHER	4	32	L69468	RUBBER BUMPER	2
14	101436	STRIKER-HOOD	1	33	50380362	TRANSMISSION COVER	1
15	101397	STRIKER MOUNT	1	34	L70198	LATCH, TRANSMISSION COVER .	1
16	067847	3/8" NYLON INSERT NUT	2		L99157	KEY ONLY (CH751) (<i>sold in pairs</i>) .	1
17	L69473	GAS SPRING	3	35	50380201	ENGINE COVER MOUNT	1
18	L69488	STUD, BALL	6	36	50380358	FRONT PANEL	1

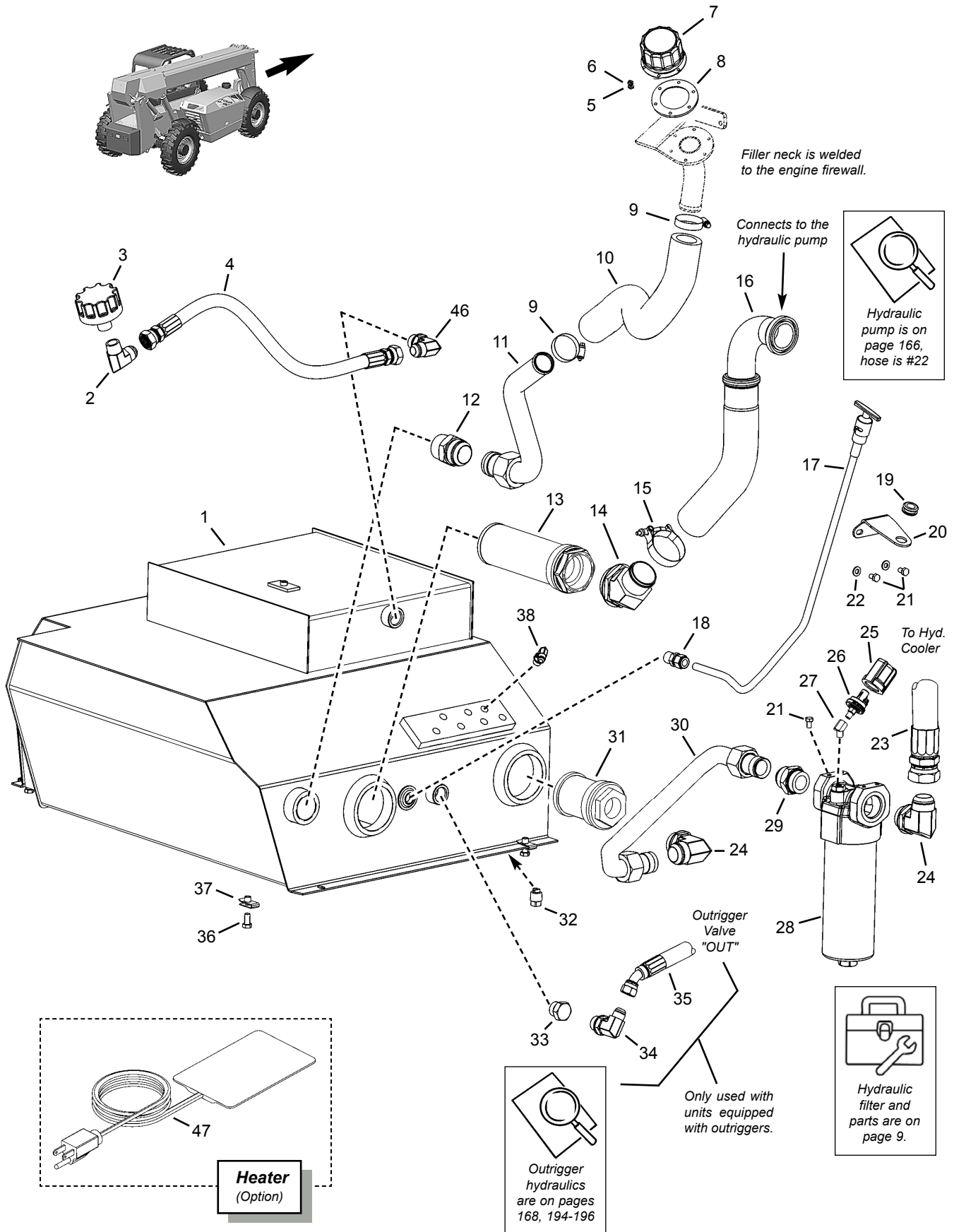


Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	210242	BATTERY HOLD DOWN.....	1	12	L69624	TRAY HINGE (<i>pin</i>).....	1
02	653098	3/8"-16 WING NUT	2	13	L50628	ROLL PIN 0.19"x1"	2
03	L70146	HOLD DOWN ROD	2	14	L630004	GROUND STRAP 14GA. 14"	1
04	L71258	MASTER DISCONNECT SWITCH .	1	15	090666	3/8"-16 FLARE NUT.....	AR
	L500312	KEY	1	16	101364	BATTERY TRAY WELD.	1
05	L500311	SPACER	1	17	L69625	BATTERY LEVER ROD.....	1
06	105841	NEG. BATTERY CABLE, 52".....	1	18	L50174	5/8" FLAT WASHER	2
07	L70178	NEG. BATTERY CABLE, 12".....	1	19	L69627	SPRING, BATTERY LEVER	1
08	50380464	POS. BATTERY CABLE, 44".....	1	20	210649	GROUND WIRE, ECU.....	1
	101960	POWER PLUG (<i>female end</i>).....	1	21	50381167	WRAP, BATTERY (<i>option</i>).....	1
	101963	#8 DEUTCH PIN	1			-- ITEMS NOT SHOWN --	
09	L630003	RUBBER BOOT	1	--	L51042	VINYL CLAMP.....	2
10	NSS	BATTERY 12 V BCI NO. 4DLT	1			(<i>secure battery cable</i>)	
11	210200	BRACKET, CABLE SUPPORT	1				

Chassis

Hydraulic Tank Group

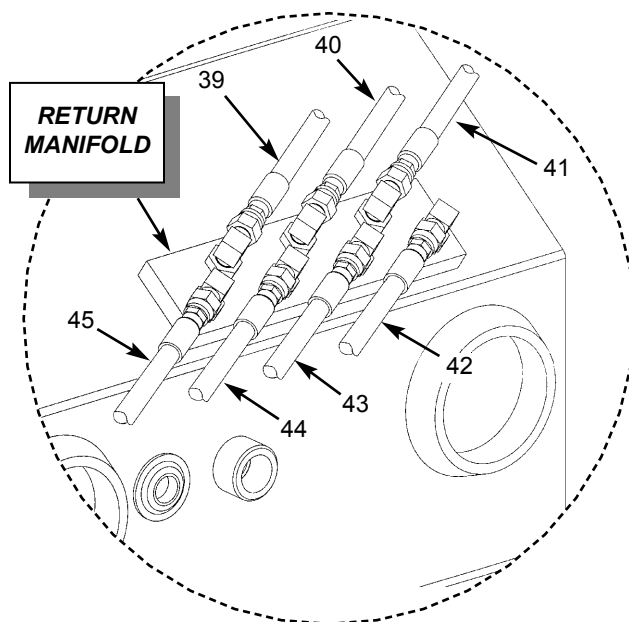
DL Series Dynalift



Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	L70377	HYDRAULIC TANK	1	26	L99970	RESTRICTION INDICATOR	1
02	054856	ADAP., -12JICM-12NPTM 90°	1			<i>(included with item 28)</i>	
03	L70388	TANK BREATHER	1	27	L448002	45 1/8" NPTF-1/8" NPTM	1
04	L70390	HOSE, -10 -12JFX - 12JFX 31"	1	28	L69309	HYDRAULIC FILTER ASSEMBLY	1
05	650550	HN MS #10-24 CZY	6			<i>(Includes items 25-27; also shown on page 9.)</i>	
06	651343	PHMS SLT #10-24 x 1/2" CZY	6	29	079038	ST MJ20-MORB20	1
07	L69578	FILLER CAP ASSEMBLY	1	30	101439	TUBE, FILTER TO TANK	1
		<i>(Includes cap, bolt-on flange, and gasket—item 8.)</i>		31	L70378	TANK DIFFUSER	1
08	L500227	GASKET	1	32	L43221	1/2"-14 MAGNETIC PLUG	1
09	L70234	2" T-BOLT BAND CLAMP	2	33 ^a	131522	PLUG -12ORM	1
10	50380335	HOSE, 1-1/2" x 25"	1	34 ^b	072615	90 MJ10-MAORB12	1
11	50380186	TUBE, HYDRAULIC FILL	1	35 ^b	L70692	HOSE, -12 A12/NS10 51"	1
12	L441010	ADAP., -24NPTM -24JICM STR	1	36	650488	CS 3/8" x 3/4" C5ZY	4
13	L69358	SUCTION STRAINER	1	37	L65211	3/8"-16 CLIP RETAINING NUT	4
14	L446001	ADAP., -32ORM -32HBARB 45°	1	38	068938	ADAP., -6ORM -6JICM 90°	7
15	137049	CLAMP, T-BOLT 2-1/2"	1	39	L69933	HOSE, -6 A6/A8 60"	1
16	L69543	HOSE, -32 x 16" MS32	1	40	L69927	HOSE, -4 A6/A6 81"	1
17	L71413	DIPSTICK, HYDRAULIC OIL	1	41	L69928	HOSE, -4 A6/A6 25"	1
18	L70338	SWAGELOK CONNECTOR	1	42	L69920	HOSE, -4 A6/A6 40"	1
19	L63546	DIPSTICK HOUSING GROMMET	1	43	L69907	HOSE, -4 A6/DS6 84"	1
20	50380196	DIPSTICK MOUNT BRACKET	1	44	L69922	HOSE, -6 A6/A6 50"	1
21	650484	CS 5/16" x 1/2" C5ZY	6	45	L69928	HOSE, -4 A6/A6 25"	1
22	650810	FW 5/16" ANZY	2	46	055005	ADAP., -12 ORM -12JICM 90°	1
23	50380367	HOSE, -20 A20/A20 18"	1	47	50381156	HEATER/500W <i>(option)</i>	1
		<i>(connects to hydraulic cooler)</i>				<i>(attaches to bottom of hydraulic tank)</i>	
24	127349	90 MJ20-MAORB20	2				
25	NSS	RUBBER BOOT <i>(included w/ #28)</i>	1				

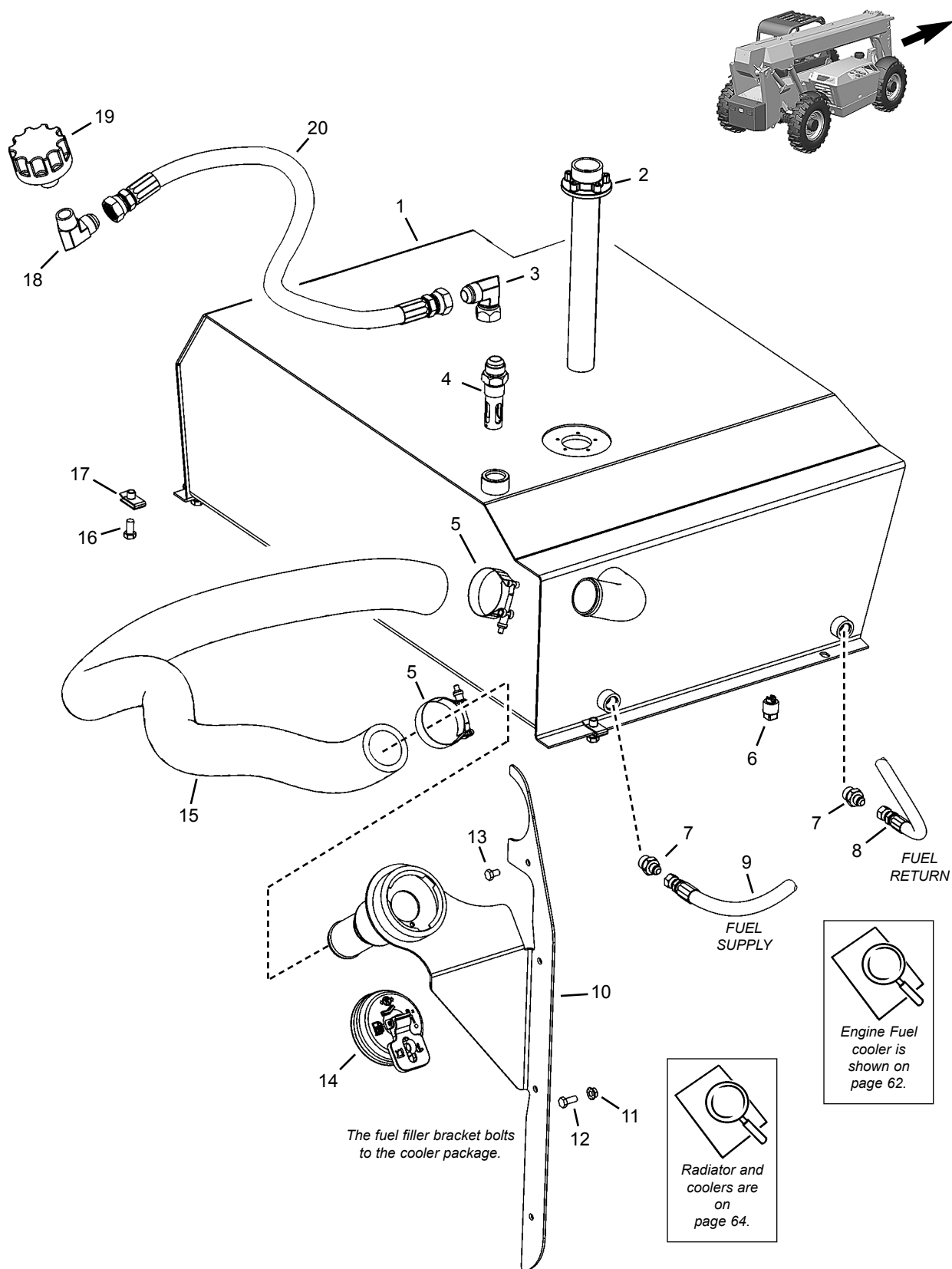
^a Standard configuration; not used with outriggers.

^b Used when equipped with outriggers.



HOSE CONNECTS TO

39	STEER MOTOR "T" (IN CAB)
40	BRAKE VALVE "T" (IN CAB)
41	JOYSTICK "T" (IN CAB)
42	FLOW DIVIDER "T" (ON HYDRAULIC PUMP)
43	BULKHEAD TEE (ABOVE MAIN HYD. VALVE)
44	LEVEL VALVE "T"
45	SAHR VALVE "T"

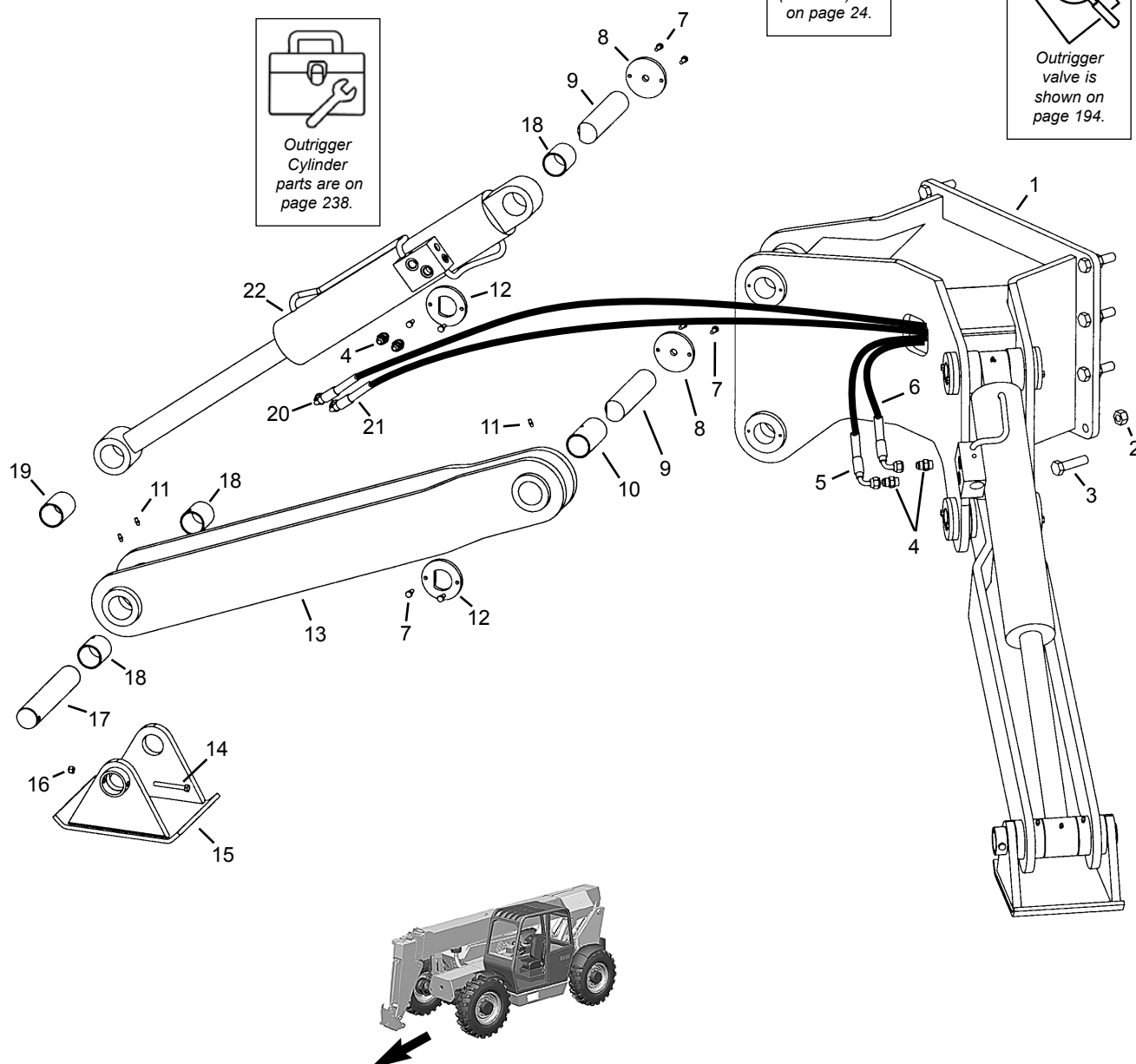
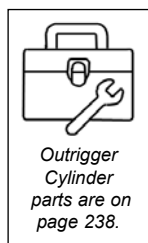
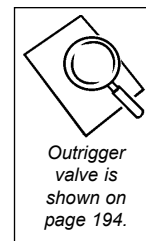
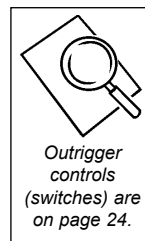


Fuel Tank Group / Fuel Cooler

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	50380369	FUEL TANK WELDMENT	1	11	L50056	FLN 5/16".	3
02	105625	SENDER, FUEL (11" deep).	1	12	65086	CS 5/16" x 3/4" C5ZY	3
03	075235	90 MJ12-FJS12	1	13	650484	CS 5/16" x 1/2" C5ZY	1
04	L79117	BREATHER CHECK VALVE ASY.	1	14	210722	CAP, VENTED FUEL.	1
05	137049	CLAMP, T-BOLT 2-1/2"	2	15	50380221	HOSE, FUEL FILL.	1
06	L43221	1/2"-14 MAGNETIC PLUG	1	16	650488	CS 3/8" x 3/4" C5ZY	4
07	230-24749	ADAP., -8ORM -6JICM STR	2	17	L65211	NUT, 3/8"-16, RETAINING CLIP	1
08		HOSE, FUEL RETURN	1	18	054856	90 MJ12-MP12	1
	50380372	<i>Note a — 5/16" K6KS 100"</i>		19	L70388	BREATHER, FUEL TANK	1
	50380648	<i>Note b — 1/4" K6K6 45" HT</i>		20	L70389	HOSE, -10 A12/A12 40"	1
09	L66157	HOSE, FUEL -6 A6/A6 70" (supply)	1				
10	50380370	FUEL FILL WELDMENT	1				

a Used on machines that are NOT equipped with the fuel cooler—shown in the illustration on page 62.

b Used on machines that ARE equipped with the fuel cooler—shown in the illustration on page 62.

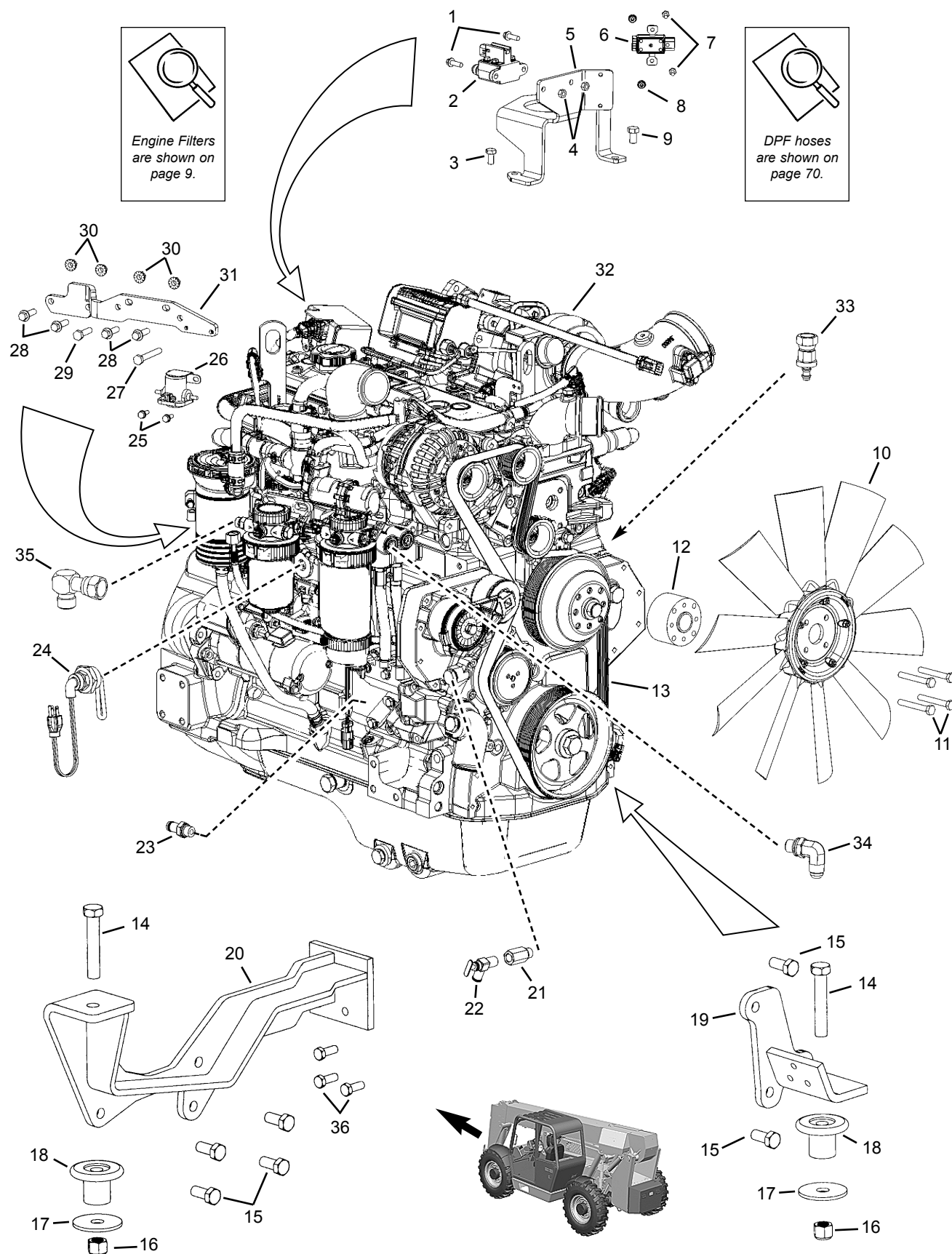


Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	L70605	OUTRIGGER FRAME	1	12	L69725	LOCK PIN CAP	4
02	L50084	3/4"-10 STOVER LOCK NUT	8	13	L70615	OUTRIGGER LEG	2
03	L50385	3/4"-10x3" GR8 BOLT	8	14	650818	3/8"-16x3" BOLT	2
04	054626	ADAP., -8ORM -8JICM STR	4	15	L64914	OUTRIGGER LEG PAD	2
05	L70695	HOSE, -6 DS8/A8 68"	1	16	L520005	3/8"-16 NYLON INSERT NUT	2
		(connects to outrigger pilot port "4")		17	L64963	LEG AND CYLINDER PIN.	2
06	L70691	HOSE, -6 DS8/A8 70"	1	18	L69138	BRONZE BUSHING	6
		(connects to outrigger pilot port "3")		19	L70618	BRONZE BUSHING (cylinder)	2
07	650486	5/16"-18x3/4" BOLT	16	20	L70695	HOSE, -6 DS8/A8 68"	1
08	L69724	PIVOT PIN CAP	4			(connects to outrigger pilot port "2")	
09	L70621	PIVOT PIN LEG/CYLINDER	4	21	L70691	HOSE, -6 DS8/A8 70"	1
10	L70614	BRONZE BUSHING	2			(connects to outrigger pilot port "1")	
11	L10465	ZERK 1/4"-28 STR	8	22	L70616	OUTRIGGER CYLINDER	2

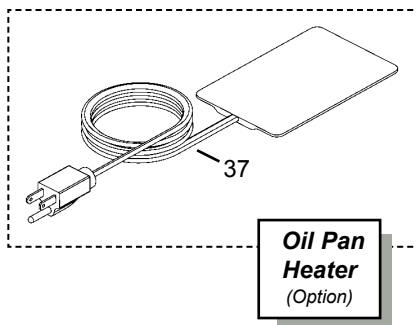
Engine

External Components

DL Series Dynalift

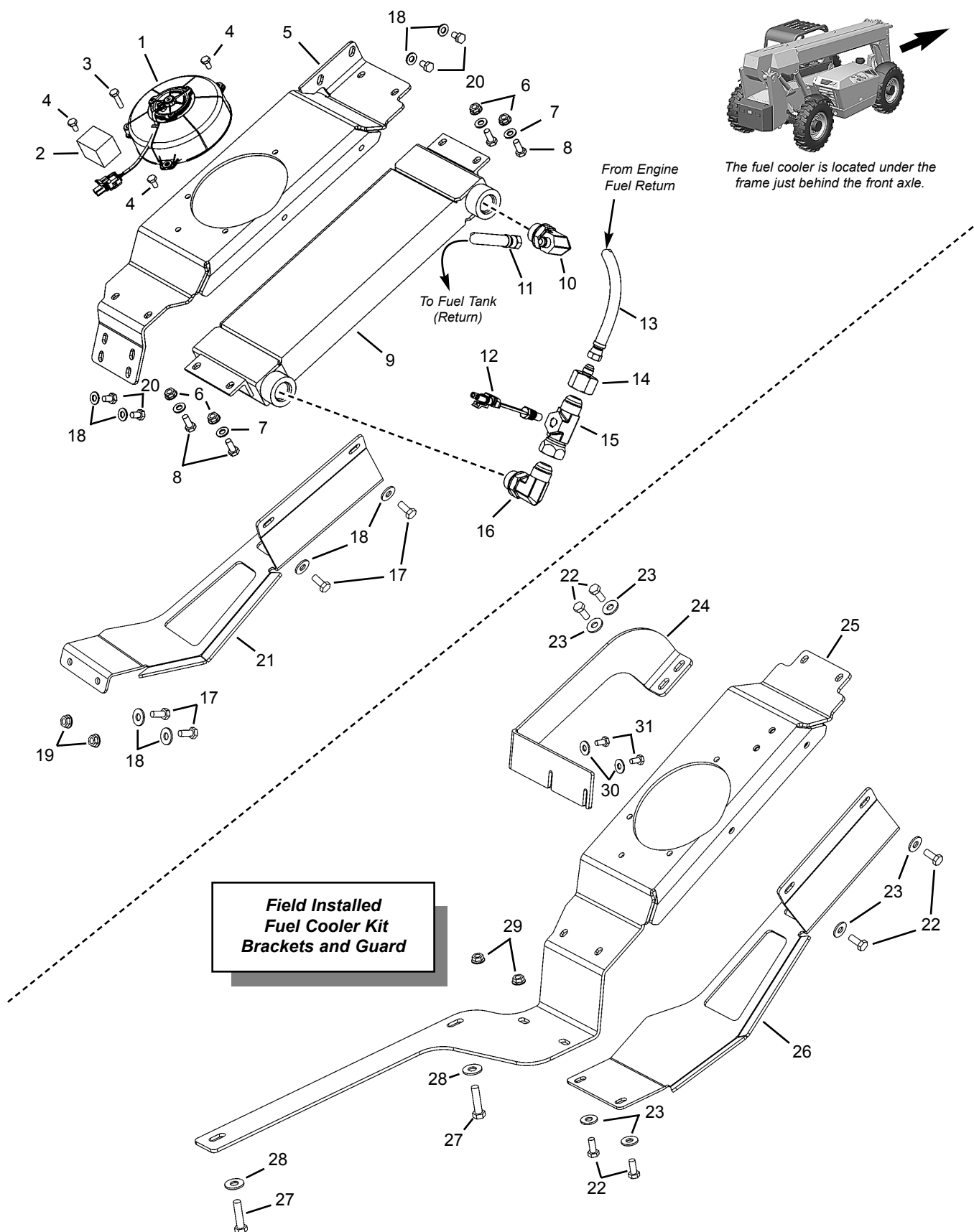


Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	651695	CS FL M801.25x25 C8.8 ZY	2	26	L41179	RELAY, ENGINE STARTER	1
02 ^a	NSS	SENSOR, DELTA PRESSURE	1	27	656131	CS M10-1.5x80 C8.8	1
03	656006	CS M10-1.5x20 C8.8 ZY	1	28	651698	CS FL M10-1.50x35 C8.8	4
04	656048	HN M8-1.25 C8 ZY	2	29	656010	CS M10-1.5x40 C8.8 ZY	1
05	50380239	BRACKET, DELTA PRESSURE	1	30	071043	LN SER FL M10-1.50 C10 ZY	4
06 ^a	NSS	SENSOR, BLOCK TEMP.	1	31	50380094	BRACKET, FUEL FILTER MOUNT	1
07	650663	CS 1/4x5/8 C5ZY	2	32	NSS	ENGINE, 4045HFC92	1
08	L50051	FLANGE LOCK NUT, 1/4-20	2	33	50380518	ST FFS04 HBO4-PUSHLOK	1
09	651404	CS M12-1.75x20 C8.8 ZY	1			<i>(used w/inj. pump fuel return hose)</i>	
10	104454	FAN, SUCTION 22"	1	34	50300778	ADAP., 90 MJ06-MMA12	1
11	656117	CS M10-1.5x75 C8.8	4	35	210047	ADAP., -6MFS -6FFSS 90°	AR
12	L70521	SPACER, FAN 2"	1	36	L50705	CS M12-1.75 x 20 C8.8	3
13		FAN BELT	1	37	50381157	HEATER/250W <i>(option)</i>	1
	50220187	<i>(Standard)</i>				<i>(attaches to bottom of engine oil pan)</i>	
	50220188	<i>(A/C equipped)</i>					
14	L50562	CS 3/4" x 4"	2			-- ITEMS NOT SHOWN --	
15	L50305	M16-2X35M BOLT GR8.8	4			<i>(Electrical)</i>	
16	079209	LN INST 3/4"	2	--	50380330	WIRE HARNESS, ECU INTERF.	1
17	L64197	WASHER, ISOLATOR MOUNT	2	--	50380315	WIRE HARNESS, ENGINE 14"	1
18	L64124	MOUNT, VIBRATION ISOLATOR	2	--	50380463	WIRE HARNESS, ENGINE 6"	1
19	100751	ENGINE MOUNT <i>(A/C style shown)</i>	1	--	50380323	HARNESS <i>(throttle and instrument)</i>	1
20	L69807	ENGINE/TRANS. MOUNT	1			<i>(Fuel Line)</i>	
21	210049	ADAP., M18 -6NPTF STR <i>(long)</i>	1	--	L66157	HOSE, 3/8" x 70" <i>(supply)</i>	1
22	L99966	SHUTOFF, MANUAL/WATER	1	--	104114	HOSE, 1/4" X 100" <i>(return)</i>	1
23	L447005	ADAP., M18 10 BEAD STR	1				
24	L65570	ENGINE BLOCK HEATER	1				
	210126	EXTENSION CORD <i>(not shown)</i>	1				
25	072916	CS FL LOCK 1/4x3/4 C5ZY	2	a		Contact John Deere Parts Department for a replacement part.	



Engine Fuel Cooler

DL Series Dynalift



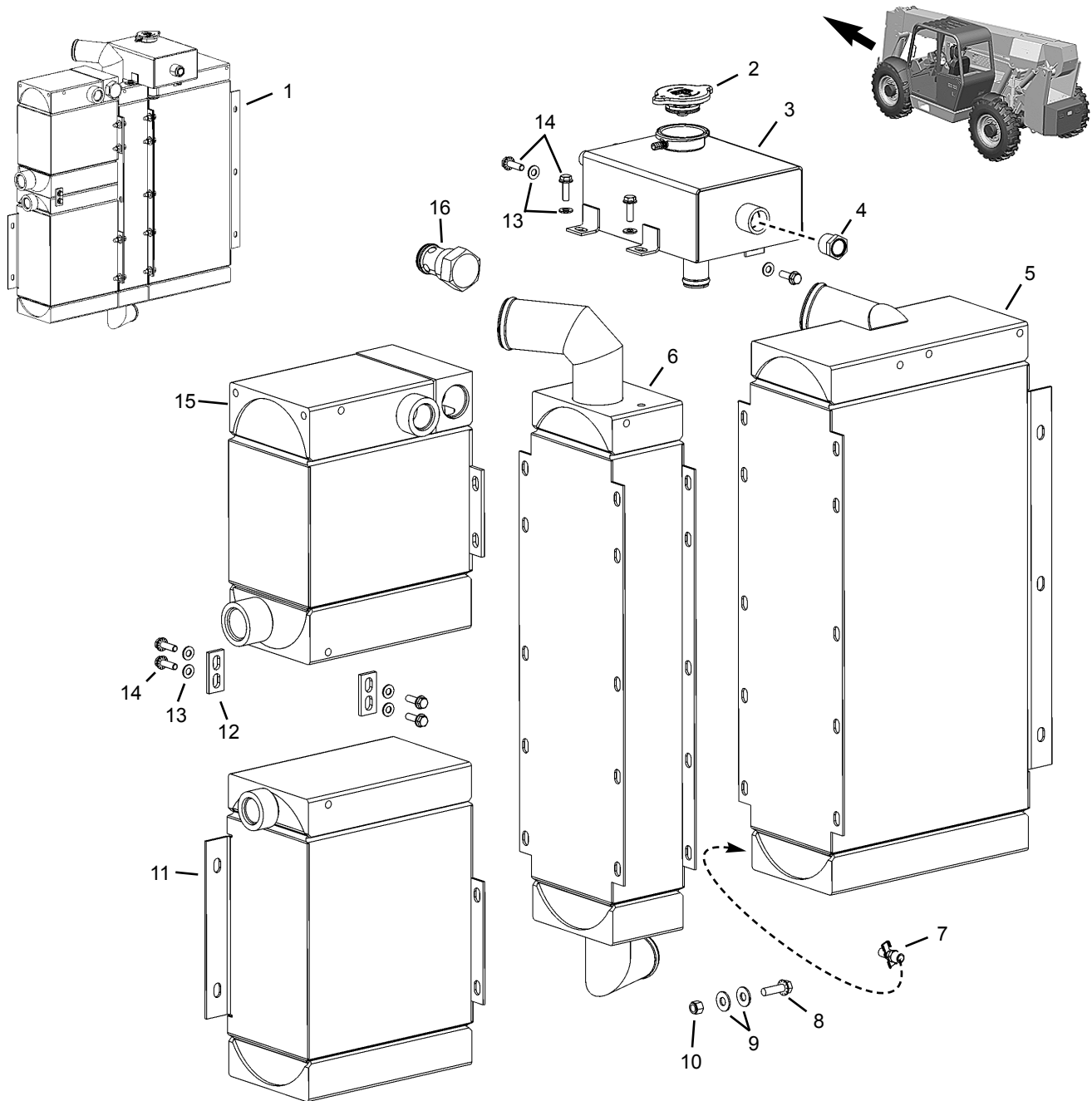
Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	50380616	FAN, ELECTRIC (PULLER)	1	-- USED WITH FIELD INSTALLED FUEL COOLER --			
02	420-35602	RELAY 12VDC.	1	22	650486	CS 5/16" x 1/2" C5ZY	6
03	650835	CS 1/4" x 1" C5ZY	1	23	654004	FW 5/16" AWZY	6
04	650542	CS 1/4" x 1/2" C5ZY	3	24	50380622	SUPPORT, FUEL COOLER	1
05	50380695	FUEL COOLER MOUNT	1	25	50380635	FUEL COOLER MOUNT	1
06	210-19470	HN FL SLOC 5/16" CZY	4	26	50380614	GUARD, FUEL COOLER (field) . . . 1 (only fits on item #25 cooler mount)	
07	654004	FW 5/16" AWZY	4	27	650533	CS 4/8" x 1-1/2" C5ZY	2
08	650486	CS 5/16" x 3/4" C5ZY	4	28	654006	FW 3/8 AWZY	2
09	50380598	COOLER	1	29	210-19470	HN FL SLOC 5/16" CZY	2
10	50301161	90 MJ06-MAORB12	1	30	654002	FW 1/4 AWZY	2
11	50380648	HOSE, 1/4" K6 K6 45" HT	1	31	650542	CS 1/4" x 1/2" C5ZY	2
12	50380628	SWITCH, TEMPERATURE 130° F . 1					
13	50380647	HOSE, 1/4" K6 SPECIAL 114" HT . 1					
14	L51493	REDUCER FJ12-JM06	1				
15	50380387	TEE MJ12-FJS12-FP04	1				
16	055005	90 MJ12-MAORB12	1				
-- USED WITH FACTORY INSTALLED FUEL COOLER --							
17	650486	CS 5/16" x 3/4" C5ZY	4				
18	654004	FW 5/16" AWZY	8				
19	210-19470	HN FL SLOC 5/16" CZY	2				
20	650484	CS 5/16" x 1/2" C5ZY	4				
21	50380686	GUARD, FUEL COOLER (factory) . 1 (only fits on item #5 cooler mount)					



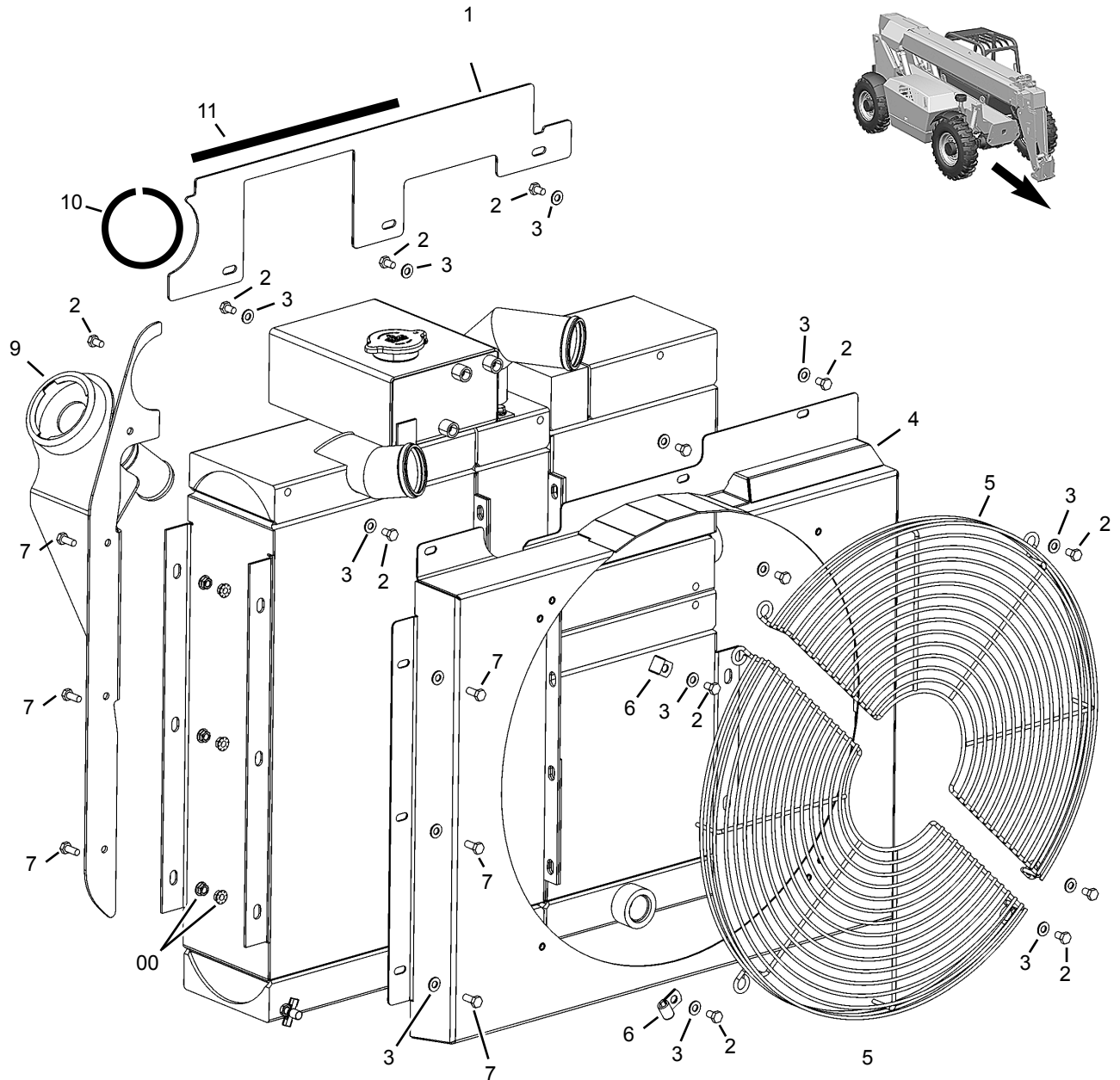
NOTE: Not all machines are equipped with an engine fuel cooler. Machines that are equipped from the factory with a fuel cooler include items 1-21. If the machine does not have a fuel cooler, and you are interested in installing one, order PN 50380649 Fuel Cooler Kit, which includes 1-16 and items 22-31; the kit does not include items 17-21.

Engine Cooler Sections

DL Series Dynalift



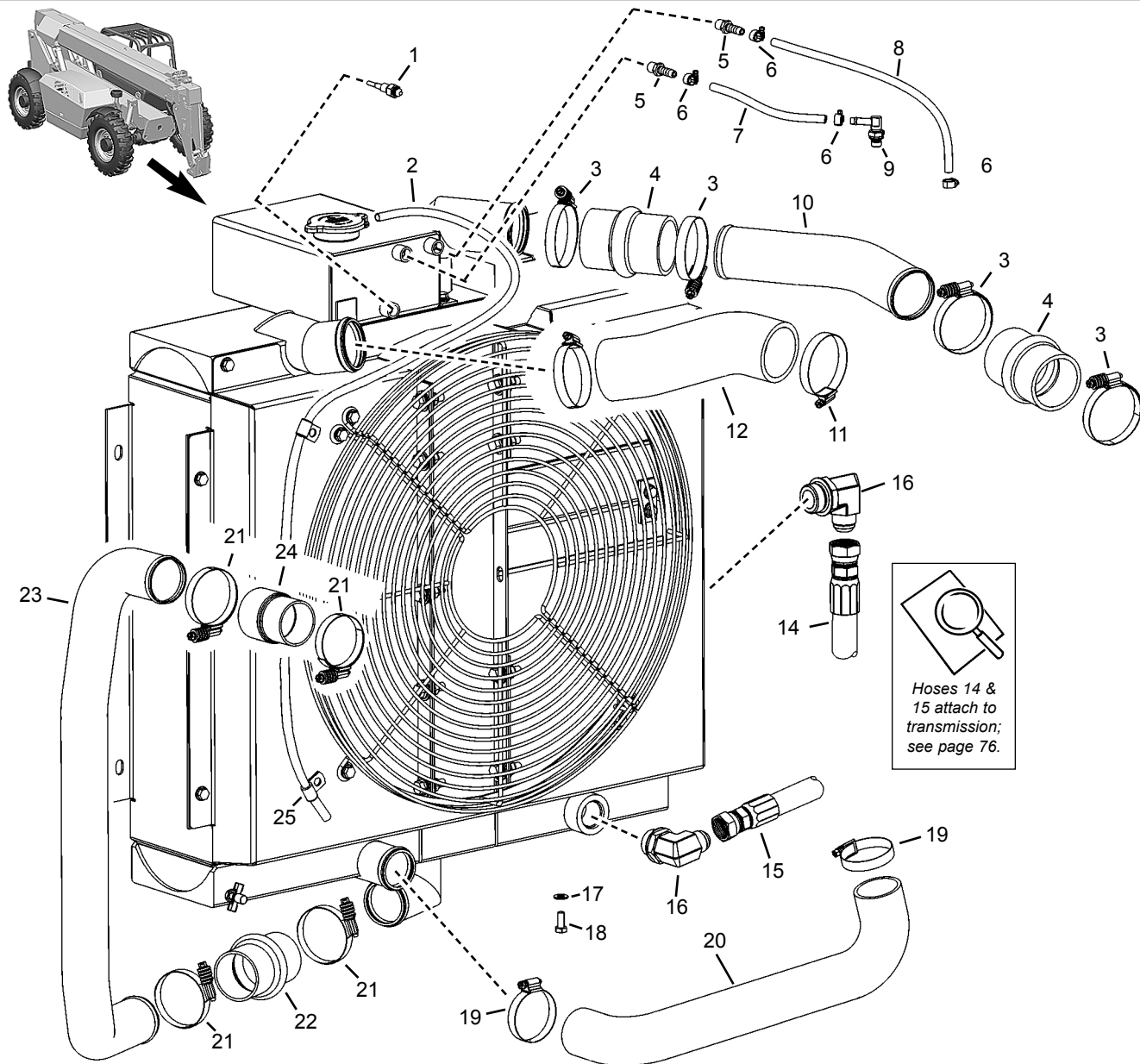
Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	50380012	COOLER ASSEMBLY	1	09	654006	FW 3/8" AWZY	36
		(includes all items shown)		10	067847	HLN INST 3/8" CZY	18
02	50220220	RADIATOR CAP, 18 P.S.I.	1	11	50220224	TRANSMISSION SECTION	1
03	50220225	SURGE TANK	1	12	50220226	TANK MOUNTING STRAP	2
04	50220227	SIGHT GLASS	1	13	650810	FW 5/16" ANZY	8
05	50220221	RADIATOR SECTION	1	14	064354	CS FL LOCK 5/16" x 1" C5ZY	8
06	50220222	CHARGE-AIR SECTION	1	15	50220223	HYDRAULICS SECTION	1
07	L40805	DRAIN VALVE	1	16	50220164	CHECK VALVE, 60 P.S.I.	1
08	081377	CS FL LOCK 3/8" x 1-1/4" C5ZY	18				



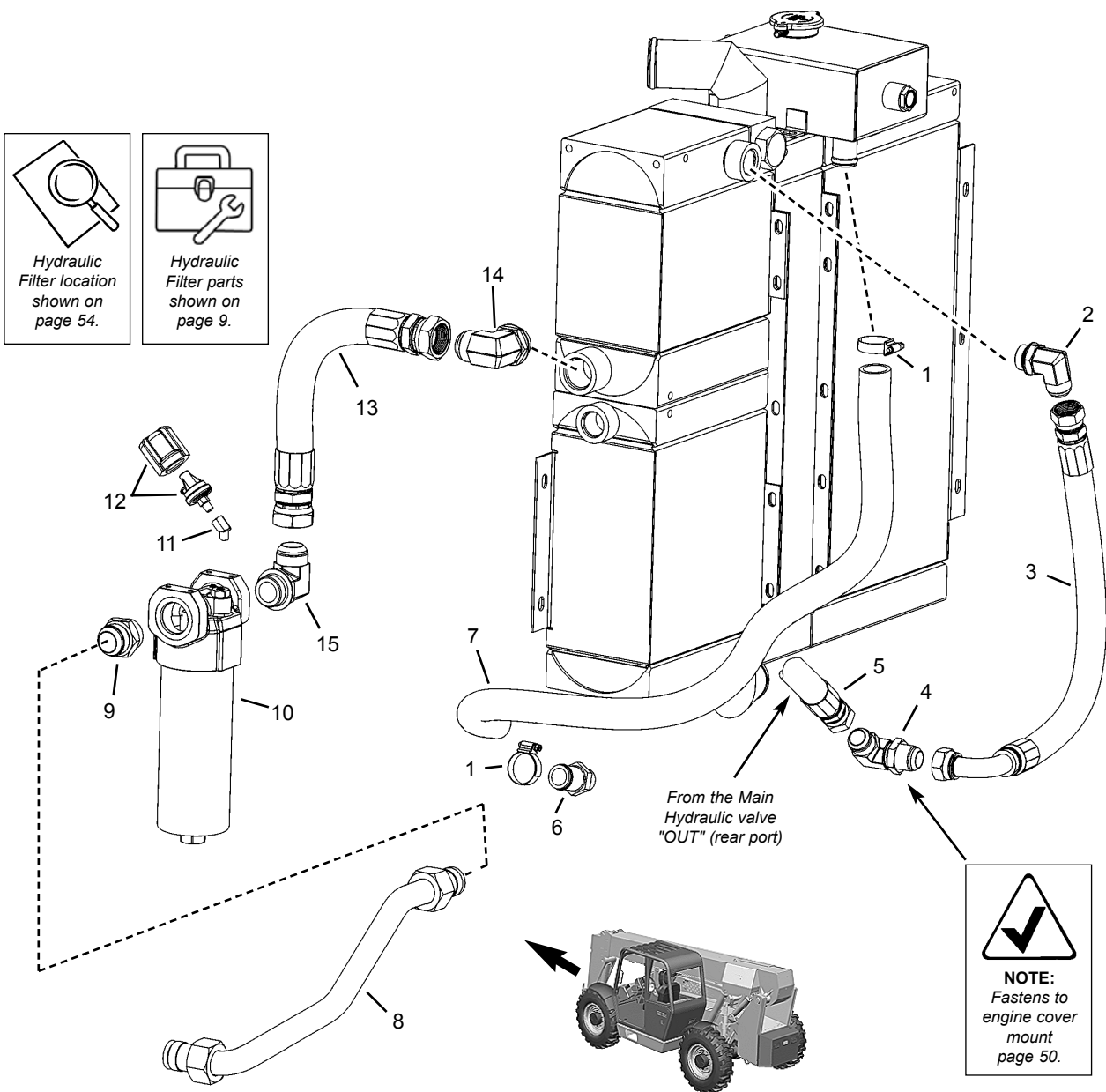
Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	50380234	BAFFLE, TOP	1	08	L50056	HLN INST 5/16"	AR
02	650484	CS 5/16" x 1/2" C5ZY	AR	09	50380370	FUEL FILLER PANEL	1
03	654004	FW 5/16" AWZY	AR	10	105086	TRIM (surrounds air intake tube)	1
04	50380366	FAN SHROUD	1	11	210004	TRIM (seated on baffle plate and fuel filler panel)	1
05	104455	FAN GUARD	2				
06	420-19671	VINYL CLAMP, 3/8"	2				
07	650486	CS 5/16" x 3/4" C5ZY	AR				

Engine Cooler Hoses

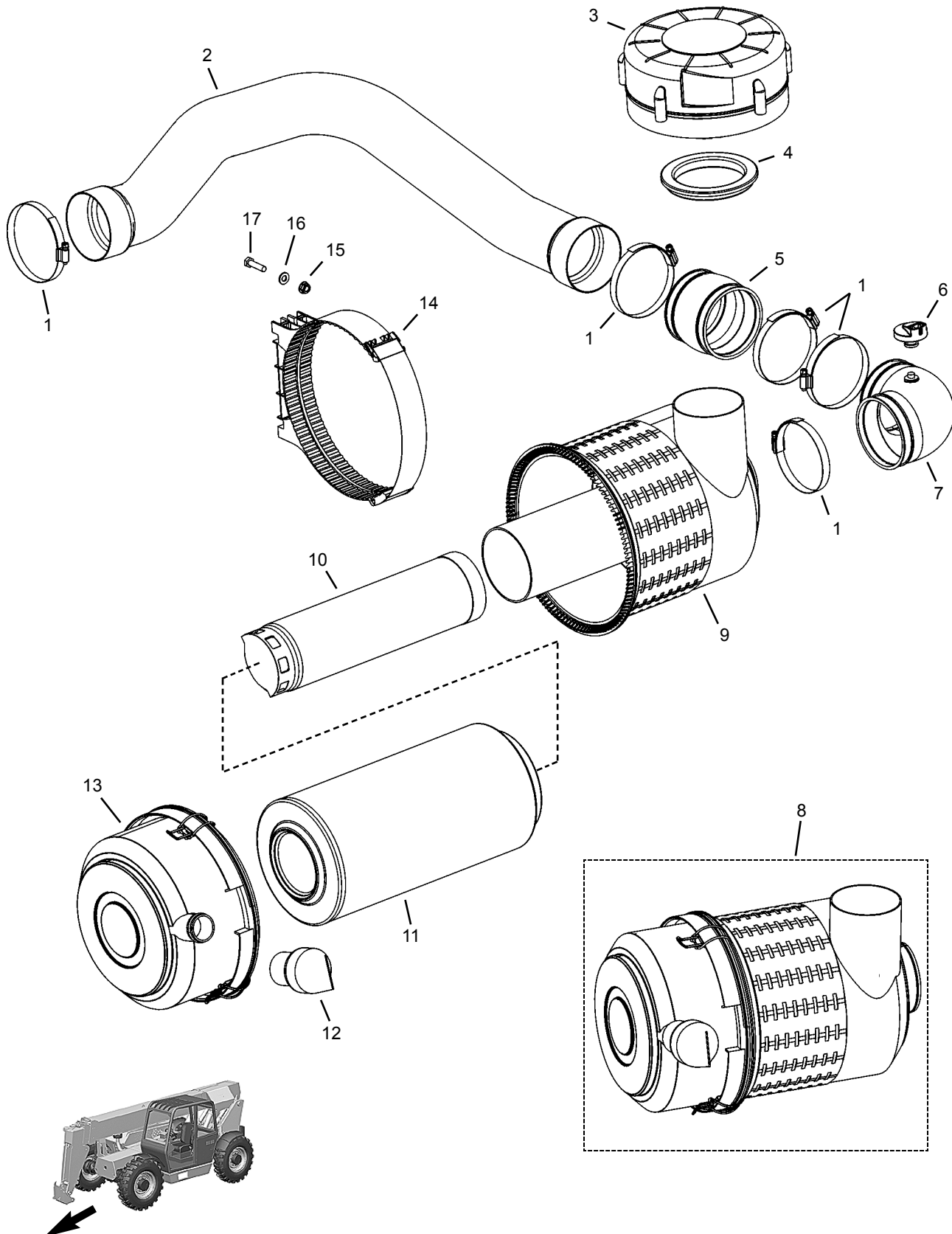
DL Series Dynalift



Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	50380479	SENSOR, COOLANT LEVEL	1	14	105848	HOSE, -12 A12/A12 30"	1
02	102262	HOSE, RAD. OVERFLOW (42")	1	15	105848	HOSE, -12 A12/A12 30"	1
03	50300170	CLAMP, HOSE #40 TENSION	4	16	121684	90 MJ12-MAORB16	1
04	211151	HOSE, SILICONE 2-1/2" ID	1	17	650486	CS 5/16" x 3/4" C5ZY	8
05	133074	ST HB05-MP04 BRASS	2	18	650810	FW 5/16" ANZY	8
06	062023	CLAMP, HOSE #05	4	19	L76020	CLAMP, HOSE #32	2
07	50380312	HOSE, OVERFLOW (8")	1	20	50380174	HOSE, LOWER RADIATOR	1
08	50380313	HOSE, OVERFLOW (14")	1	21	105175	CLAMP, HOSE #36 TENSION	4
09	50380311	90HB05-ISO6149-12 ORIFICE	1	22	104452	HOSE, SILICONE 2-1/4" ID	1
10	211141	TUBE, UPPER CHARGE-AIR	1	23	211140	TUBE, LOWER CHARGE-AIR	1
11	087850	CLAMP, HOSE #40	2	24	104885	HOSE, TRANSITION 2" x 2-1/4"	1
12	211306	HOSE, UPPER RADIATOR	1	25	420-19671	VINYL CLAMP, 3/8"	2
13	NA	0				

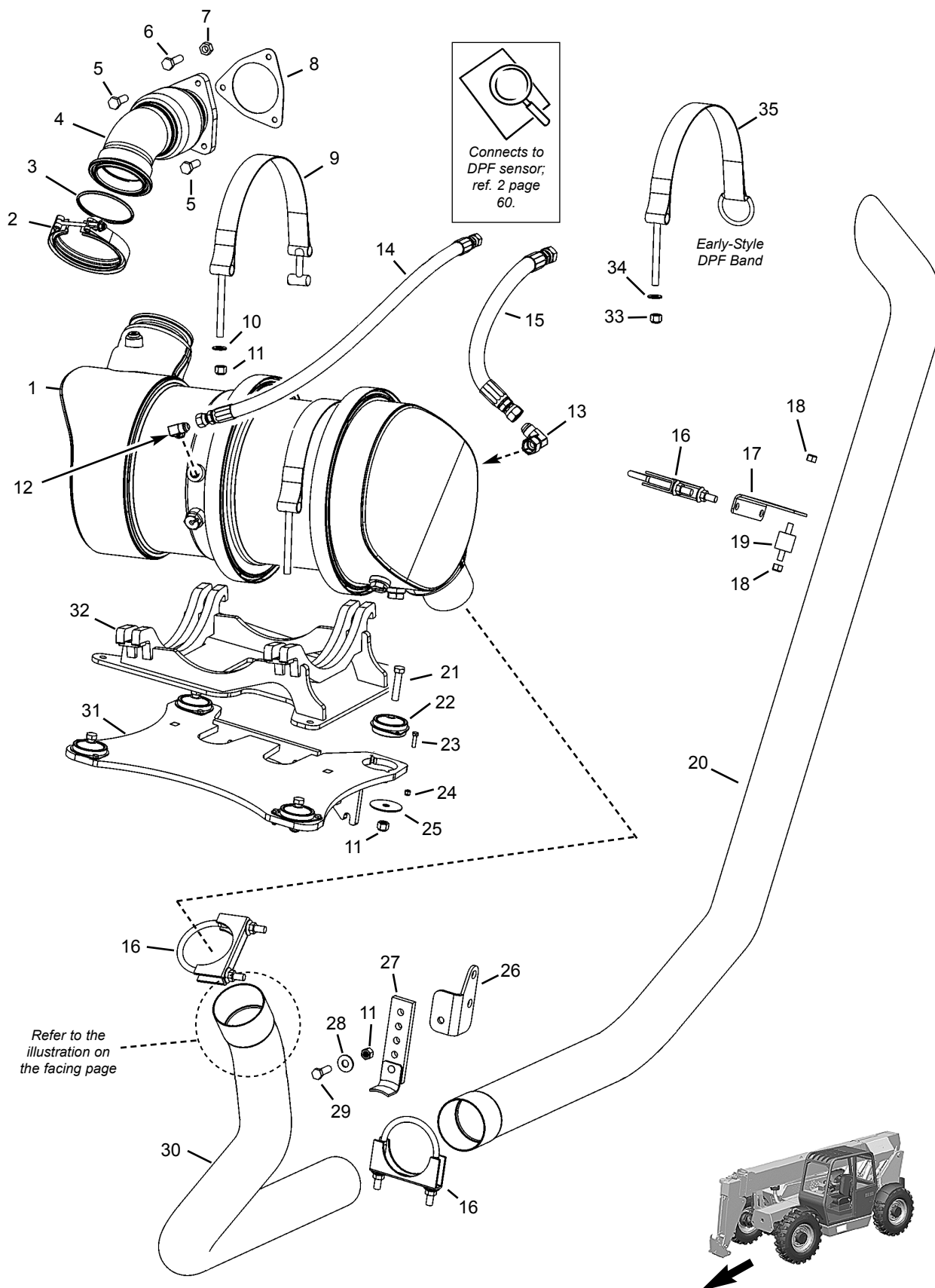


Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	061946	CLAMP, HOSE #24	2	09	079038	ST MJ20-MORB20	1
02	077965	90 MJ16-DS16	1	10	L69309	HYDRAULIC FILTER ASSEMBLY..	1
03	105691	HOSE, -16 A16/DS16 29"	1			(Refer to page 9 for component parts.)	
04	L62943	90 BLKHD MJ16-MJ16	1	11	L448002	45 1/8" NPTF-1/8" NPTM	1
05	105167	HOSE, -16 A16/DS16 78"	1	12	L99970	RESTRICTION INDICATOR	1
		(From main hydraulic valve "OUT"—rear port.)		13	50380367	HOSE, -20 A20/A20 18"	1
06	50300301	ST HB20-ISO6149-30	1			(To hydraulic filter "IN")	
07	50380209	HOSE, COOLANT FILL	1	14	127349	90 MJ12-MORB16	1
08	101439	TUBE, FILTER TO TANK	1				



DL7/ DL9/ DL11/ DL12**Engine
Air Cleaner Group**

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	079769	CLAMP, HOSE #72	5	10	105071	FILTER, AIR (secondary).	1
02	50380185	PIPE, AIR INLET	1	11	105070	FILTER, AIR (primary)	1
03	192587	PRE-CLEANER	1	12	137659	EJECTOR, DUST	1
04	50380391	SEAL, AIR INTAKE NECK 4"	1	13	NSS	END CAP, AIR CLEANER	1
05	50380468	RUBBER, STRAIGHT 4" ID	1	14	105059	BAND, AIR CLEANER MOUNT	1
06	105215	INDICATOR, SERVICE	1	15	L50056	FLANGE LOCK NUT, 5/16"	1
07	105065	ADAPTER, RUBBER 4" 90°	1	16	650810	FW 5/16" AWZY	1
08	105054	AIR CLEANER ASSEMBLY	1	17	650545	CS 5/16" x 1-1/4" C5ZY	1
09	NSS	HOUSING, AIR CLEANER	1				



Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01 ^a	NSS	DPF	1	29	650491	CS 3/8" x -1-1/4" C5ZY	1
02	50220192	CLAMP, EXHAUST	1	30		PIPE, EXHAUST	1
03	50220190	SEALING RING	1		50380498	<i>Note b</i>	
04	211257	COUPLER, EXHAUST FLEX	1		211127	<i>Note c</i>	
05	656008	CS M10-1.5x30 C8.8 ZY	2	31	50380365	DPF MOUNT WELDMENT	1
06	656008	CS M10-1.5x35 C8.8 ZY	1	32		DPF CRADLE WELDMENT	1
07	656049	HLN M10-1.5 C8 ZY	1		50380500	<i>Note b</i>	
08	50220191	EXHAUST GASKET	1		50380166	<i>Note c</i>	
09 ^d	50380705	BAND, DPF MOUNTING	2	33 ^e	L520005	LN INST 3/8"	2
10	656133	FW M10 ZY	2	34	654049	FW 3/8" ANZY	2
11	656049	HN M10-1.5 C8 ZY	2	35 ^f	NSS	BAND, DPF MOUNTING (early) ...	0
12	50380436	FITTING, STAINLESS STEEL 90° ..	1				
13	50300240	90 MJ08-FJS08 SS	1				
14	50380301	HOSE, -6 A6/A6 28" TEFLON	1				
15	50380300	HOSE, -8 A8/A8 15" TEFLON	1				
16	131951	CLAMP, MUFFLER 3"	3				
17	105105	BRACKET, TAIL PIPE	1				
18	064260	HLN INST 5/16" CZY	2				
19	L70335	MOUNT, ISOLATOR	1				
20	211264	TAIL PIPE	1				
21	650579	CS 3/8" x 1-3/4" C5ZY	4				
22	211241	MOUNT, ISOLATION	4				
23	651202	SCREW, HHM USL #1024 x 3/4" ..	8				
24	084175	HLN INST #10-24	8				
25	50380017	WASHER, SNUBBING	4				
26	50380193	BRACKET, PIPE HANGER	1				
27	L64764	HANGER, TAIL PIPE	1				
28	654006	FW 3/8" AWZY	1				

a Contact John Deere Parts Department for a replacement part.

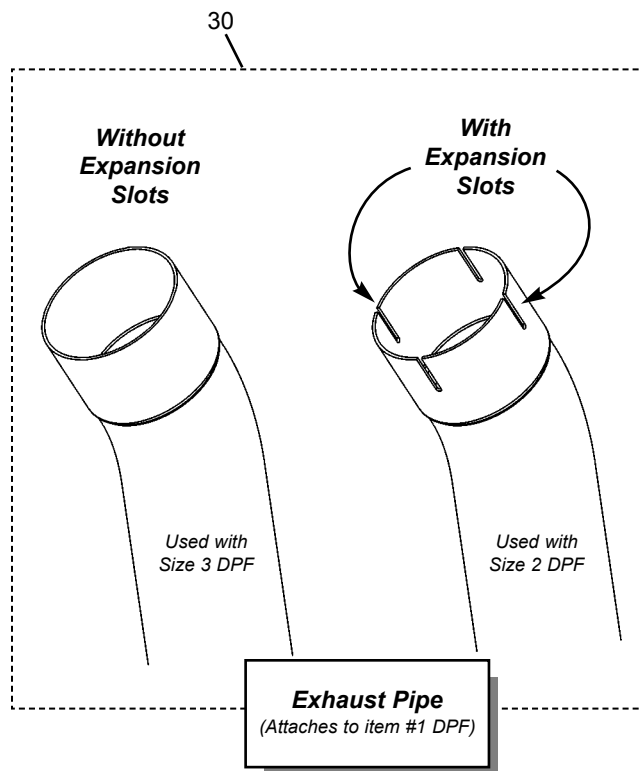
b Size 2 DPF; refer to illustration below: exhaust pipe has four expansion slots where it attaches to the DPF.

c Size 3 DPF; refer to illustration below: exhaust pipe does not have expansion slots where it attaches to the DPF.

d Late-style DPF mounting band—replaces item 35, and includes one metric nut, item #11.

e SAE nut, do not use with item #9.

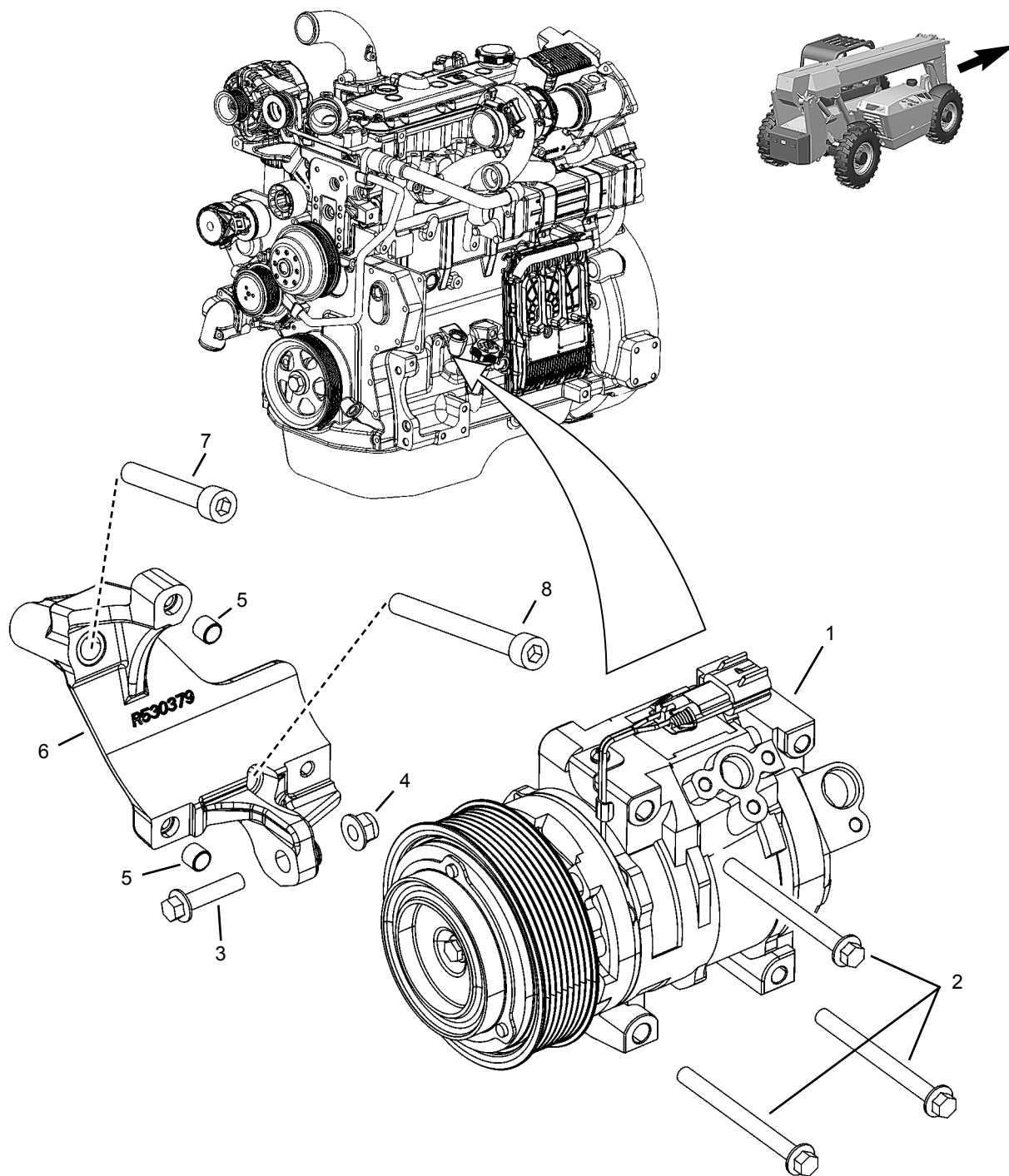
f Early-style DPF mounting band, no longer available; order item #9.



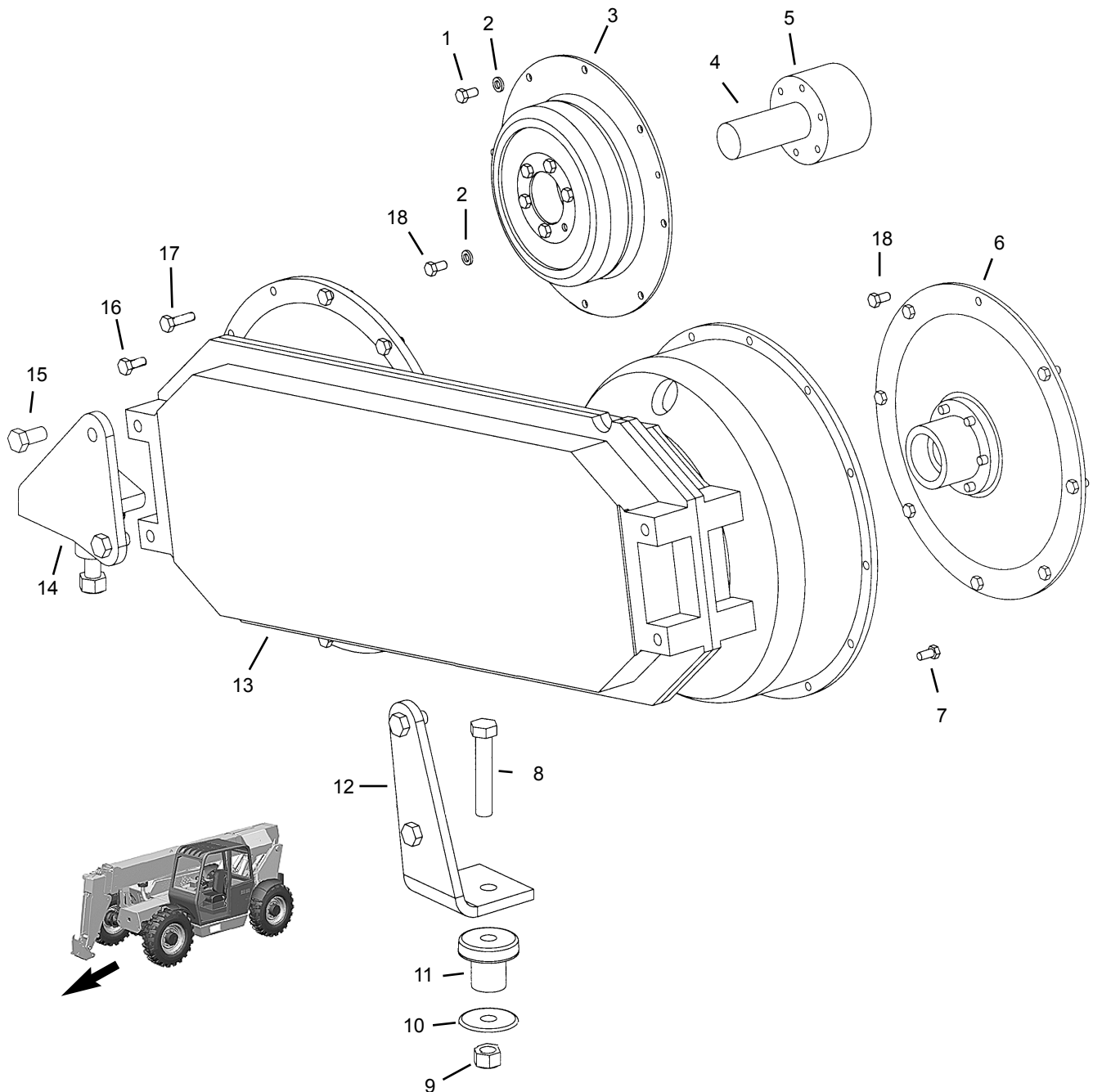
NOTE: Early machines were equipped with a size 3 DPF; later machines are equipped with a size 2 DPF. Inspect the exhaust pipe where it attaches to the DPF. If the exhaust pipe has expansion slots like those shown in the illustration to the left, then the machine is equipped with a size 2 DPF, otherwise the machine is equipped with a size 3 DPF.

Air Conditioner Compressor - (Option)

DL Series Dynalift



Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	50380423	A/C COMPRESSOR	1	07	651789	SHCS M10-1.5x65 C12.9 OCG. . .	1
02	651697	CS FL M8-1.25x90 C8.8 ZY	3	08	NSS	SHCS M10-1.5x100 C12.9 OCG. . .	1
03	651720	CS FL M8-1.25x35 C8.8 ZY	1				
04	651706	LN INST FL M8-1.25 C8 ZY	1				
05	210213	BUSHING, COMPRESSOR PILOT .	2				
06	50380424	A/C COMPRESSOR MOUNT	1				
						-- ITEMS NOT SHOWN --	
				00	50220188	FAN BELT (A/C equipped).	1

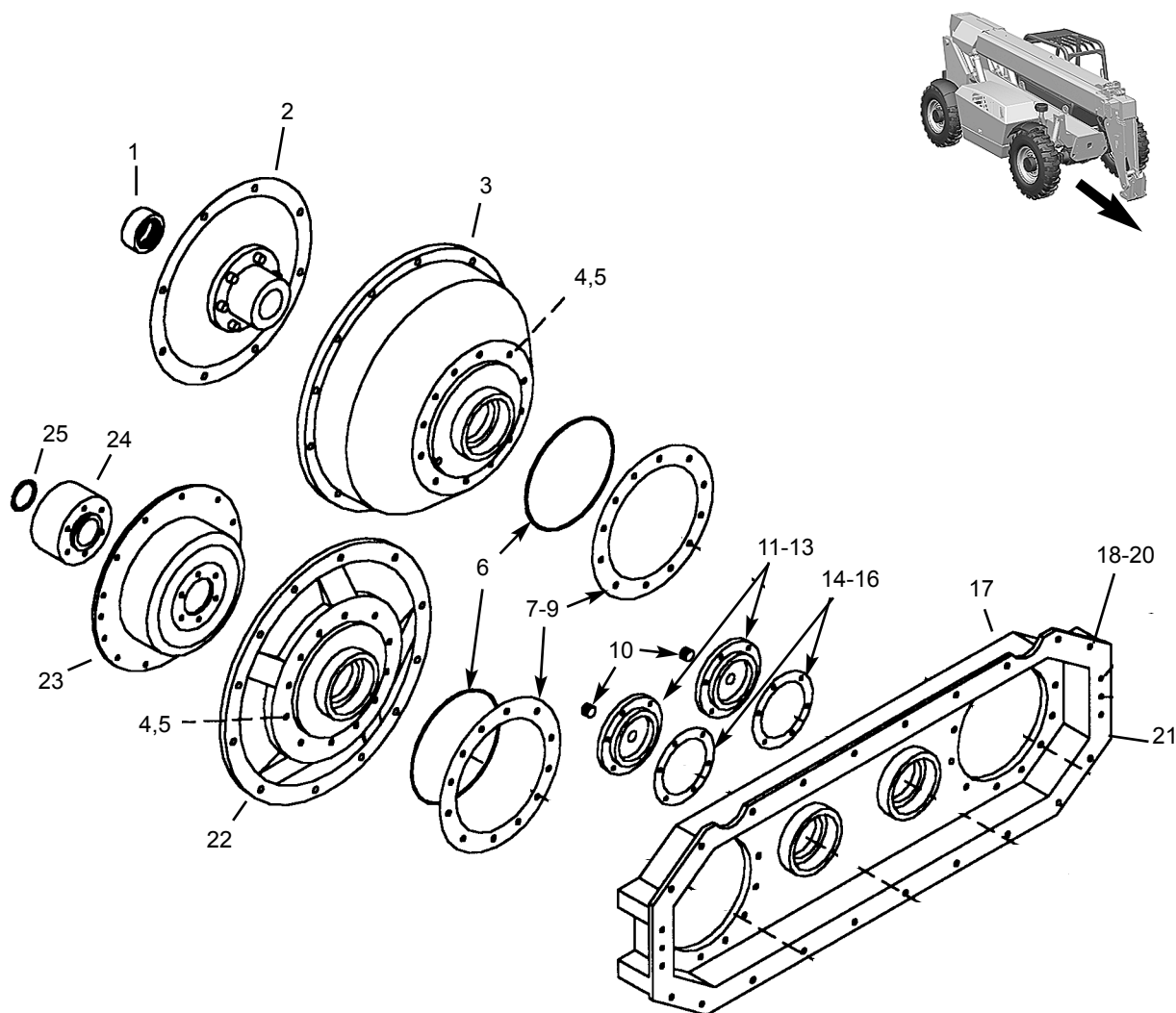


Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	650490	3/8"-16x1" BOLT	8	10	L69241	TAIL WASHER.	2
02	L50820	3/8" HARDENED WASHER	14	11	L69240	CENTER BONDED MOUNT	2
03	L69400	FLEXIBLE COUPLING	1	12	L69324	CASE MOUNT BAR	1
04	L99825	SHAFT ADAPTER.	1	13	L69123	TRANSFER CASE ASY.	1
05	L99799	HUB ADAPTER`	1	14	L69265	CASE MOUNT	1
06	L99800	DRIVEN PLATE ASY.	1	15	L50359	5/8"-11x1/14" BOLT	4
07	L50368	3/8"-16x1-1/4" BOLT	12	16	L50952	M10 1.5x25 MM BOLT	8
08	L50562	3/4"-10x4" BOLT	2	17	L50727	M10 1.5x35 MM BOLT	4
09	079209	3/4"-10 NYLON INSERT NUT.	2	18	651125	3/8"-24x3/4" BOLT.	14

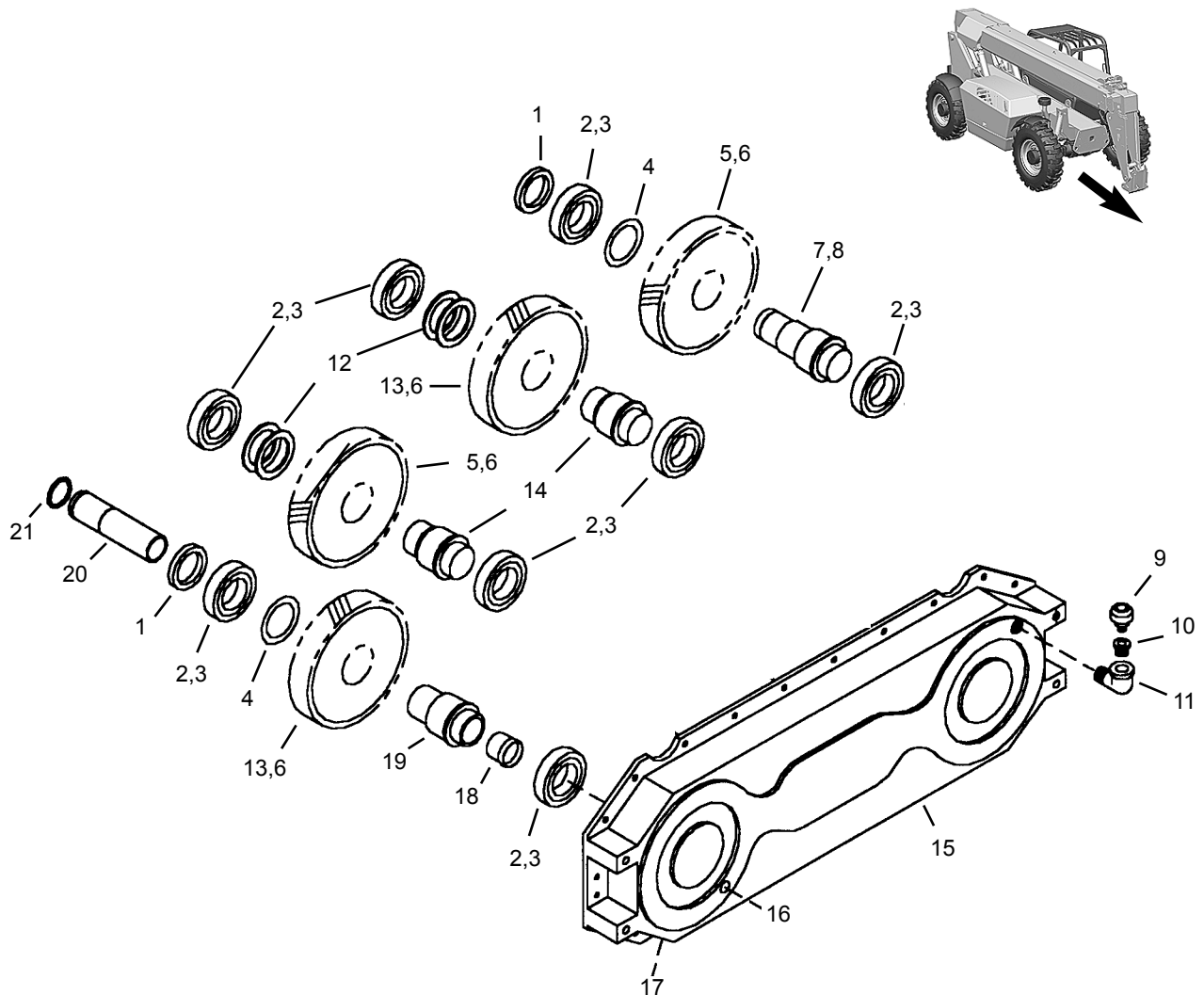
Transfer Case

Assembly Group — Front Half

DL Series Dynalift



Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	L99828	EXTERNAL RETAINING RING	1	13	654024	5/16" LOCK WASHER	12
	L99829	BUSHING	1	14	L99812	IDLERS SHIM 0.005"	8
02	L99800	DRIVEN PLATE ASY.	1	15	L99813	IDLERS SHIM 0.007"	8
03	L99797	TRANSMISSION ADAPTER	1	16	L99814	IDLERS SHIM 0.020"	2
04	L50592	1/2"-13x1-1/2" GR8 BOLT	12	17	NSS	HOUSING SUBASSEMBLY	1
05	654030	1/2" LOCK WASHER	12	18	L50368	3/8"-16x1-1/4" GR8 BOLT	14
06	L99818	O-RING	2	19	654006	3/8" FLAT WASHER	14
07	L99809	INPUT/OUTPUT SHIM 0.007"	8	20	650552	3/8"-16 GR8 NUT	14
08	L99810	INPUT/OUTPUT SHIM 0.020"	2	21	L99819	DOWEL PIN	2
09	L99811	INPUT/OUTPUT SHIM 0.005"	8	22	L99796	ADAPTER, SAE #3	1
10	L99823	1/2" NPT PLUG	3	23	L69400	FLEXIBLE COUPLING	1
11	L99798	END-INTERMEDIATE CAP	2	24	L99799	HUB ADAPTER	1
12	650487	5/16"-18x1" BOLT	12	25	L67379	EXTERNAL RETAINER RING	2

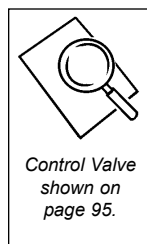
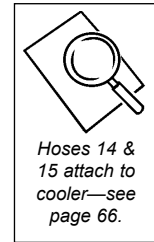
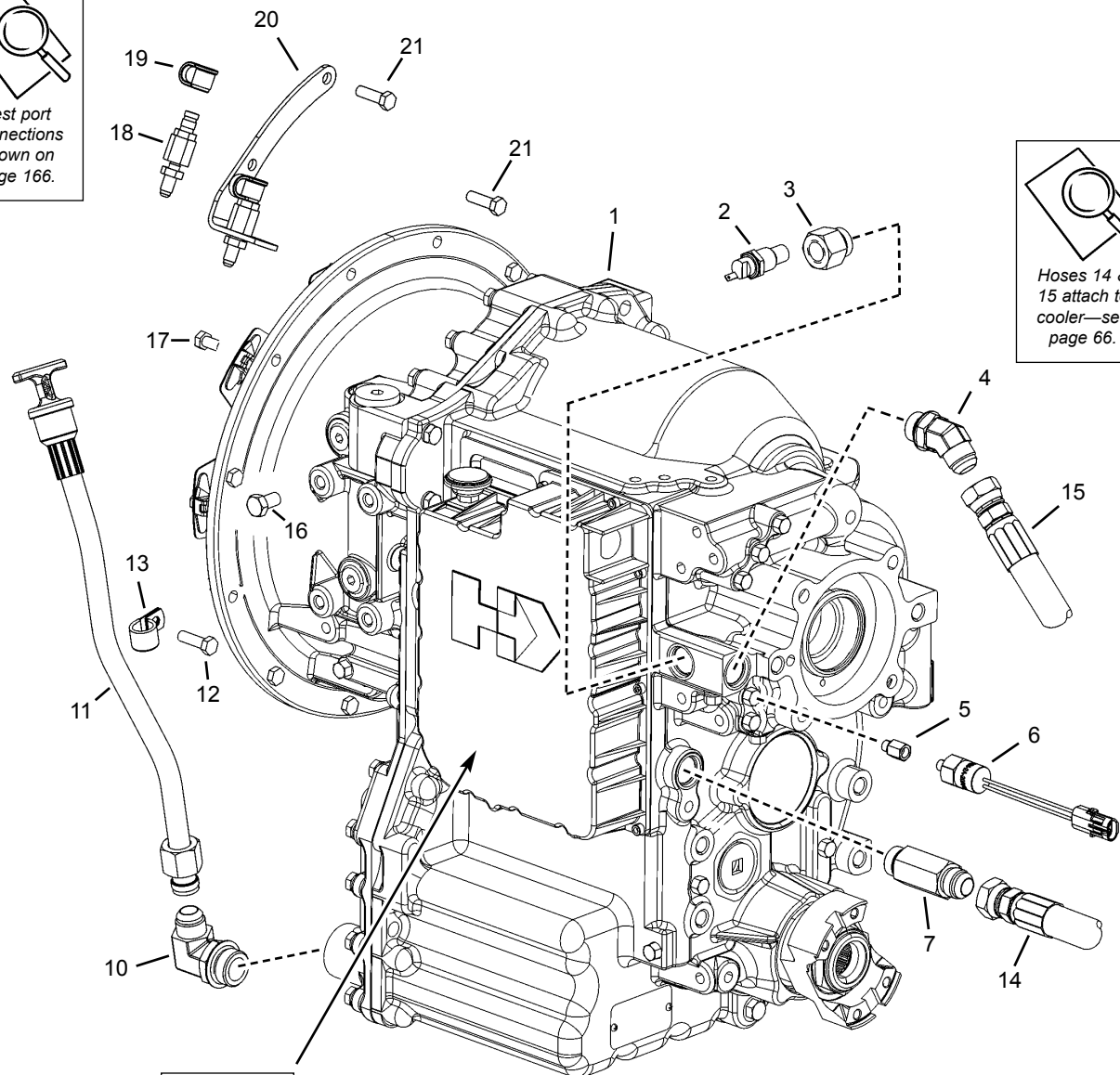
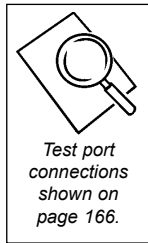


Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	L99817	HIGH TEMP. VITON SEAL	2	12	L99808	IDLER SPACER.	4
02	L99805	BEARING CONE	8	13	L99802	LH GEAR (79 TEETH)	2
03	520013	BEARING CUP	8	14	L99804	IDLER SHAFT	2
04	L99807	OUTER SPACER.	2	15	NSS	HOUSING SUB-ASY.	1
05	L99801	RH GEAR (84 TEETH)	2	16	L99823	1/2" NPT PLUG	3
06	L99816	KEY	4	17	L99822	1/2" NPT MAGNETIC PLUG	1
07	L99826	OUTPUT SHAFT	1	18	L99815	EXPANSION PLUG	1
08	L99827	KEY	1	19	L99803	INPUT SHAFT	1
09	L99820	BREATHER	1	20	L99825	SHAFT ADAPTER	1
10	L99821	3/8" TO 3/4" BUSHING	1	21	L67379	EXTERNAL RETAINER RING.	2
11	L99824	3/4" NPT STREET ELBOW	1				

Transmission

External Components, Electronics, and Driveshafts

DL Series Dynalift



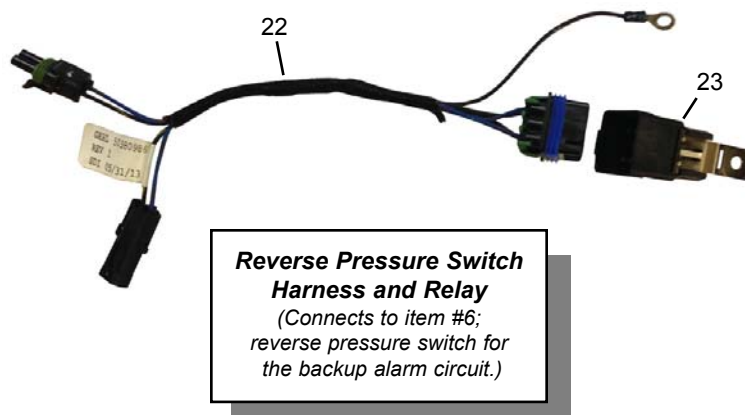
Front Driveshaft (shown)

External Components, Electronics, and Driveshafts

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01 ^a	104867	TRANSMISSION <i>(only)</i>	1	22	50380986	WIRE HARNESS, REV. RELAY . . .	1
02	L64795	TEMPERATURE SENDER	1	23	420-35602	RELAY	1
03	L446014	ADAP., -12ORM -8NPTF	1				
04	055064	ADAP., -12ORM -12JICM 45°	1			-- ITEMS NOT SHOWN --	
05	L445007	ADAP., 1/8NPTF -10ORM	1			(Universal Joint Bolts)	
06	L70133	REV. PRESSURE SWITCH	1	--	L50873	M10x1.0/45MM GR10.9 BOLT	8
07	188973	ADAP., -12 SAE -12JICM LNG ST .	1			<i>(metric used on axle end of u-joint)</i>	
08	L99182	UNIVERSAL JOINT	4	--	L50468	3/8"-24x1-3/4" GR8 BOLT	24
09		DRIVESHAFT			654026	3/8" LOCK WASHER	AR
	210492	FRONT DRIVE SHAFT	1				
	L68549	REAR DRIVE SHAFT	1			(Pressure Testing)	
10	121684	90 MJ12-MAORB16	1	--	L500375	TEST ADAPTER	1
11 ^b	50380222	DIPSTICK ASSEMBLY	1			<i>(for checking pressure)</i>	
12	650497	CS 3/8" X 1-1/4" C5ZY	12				
13	136226	CLAMP, VINYL 3/4"	1			(Wire Harness)	
14	105848	HOSE, -12 A12/A12 30"	1	--	105103	HARNESS, CONTROL VALVE	1
15	105848	HOSE, -12 A12/A12 30"	1			<i>(Harness is shown on page 95.)</i>	
16	L50706	CS M12-1.75x20 8.8	2				
17	651125	CS 3/8" x 3/4" F5ZY	8	a		<i>Does not include any of the items shown on the facing page other than the transmission itself—all other parts must be ordered separately.</i>	
18	L62834	TEST PORT BULKHEAD	2				
19	L62840	DUST CAP.	2				
20	50380392	BRACKET, TEST PORTS	1	b		<i>Includes dipstick and tube—the dipstick is not sold separately.</i>	
21	650491	CS 3/8" x 1-1/4" C5ZY	12				



NOTE: Additional wire harnesses and electronics associated with the transmission are shown on the next page.



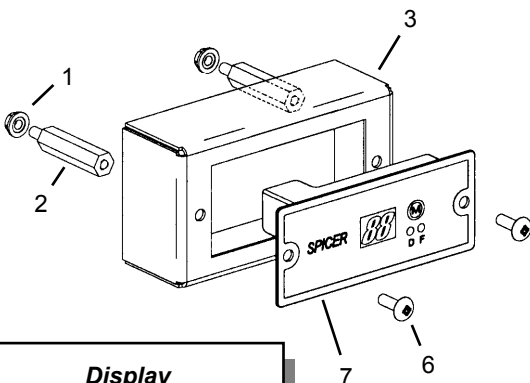
Transmission

Electronic Controller and Display

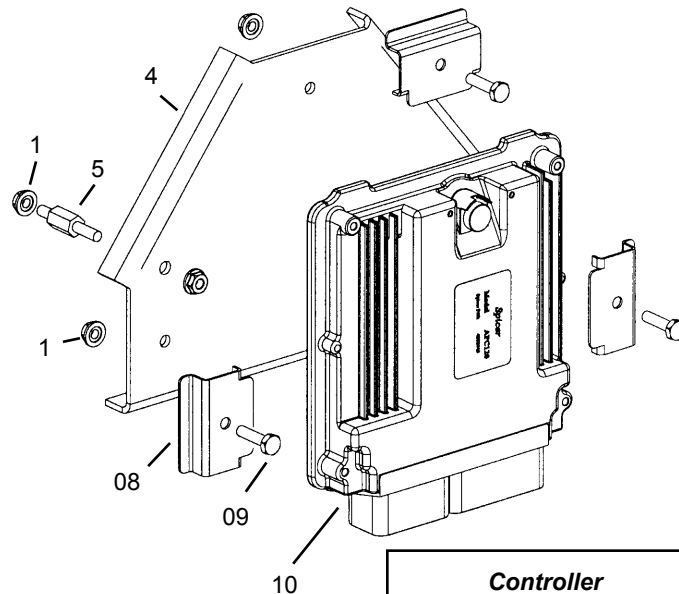
DL Series Dynalift



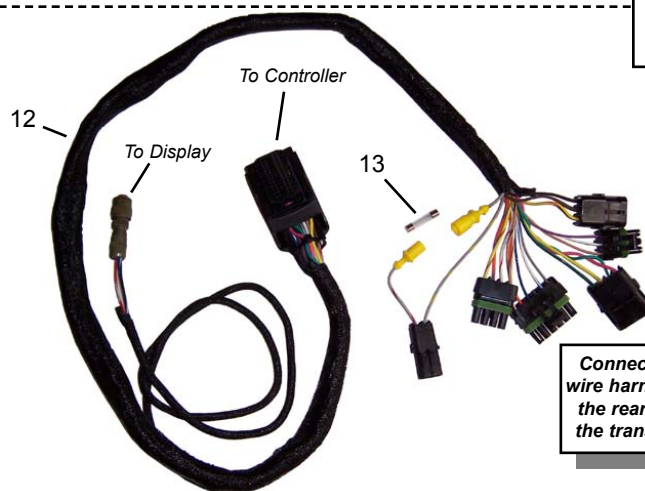
Tool Compartment



Display
(located above fuse box in
tool compartment)



Controller
(located in the rear of the
tool compartment)



**APC Controller
Wire Harness**

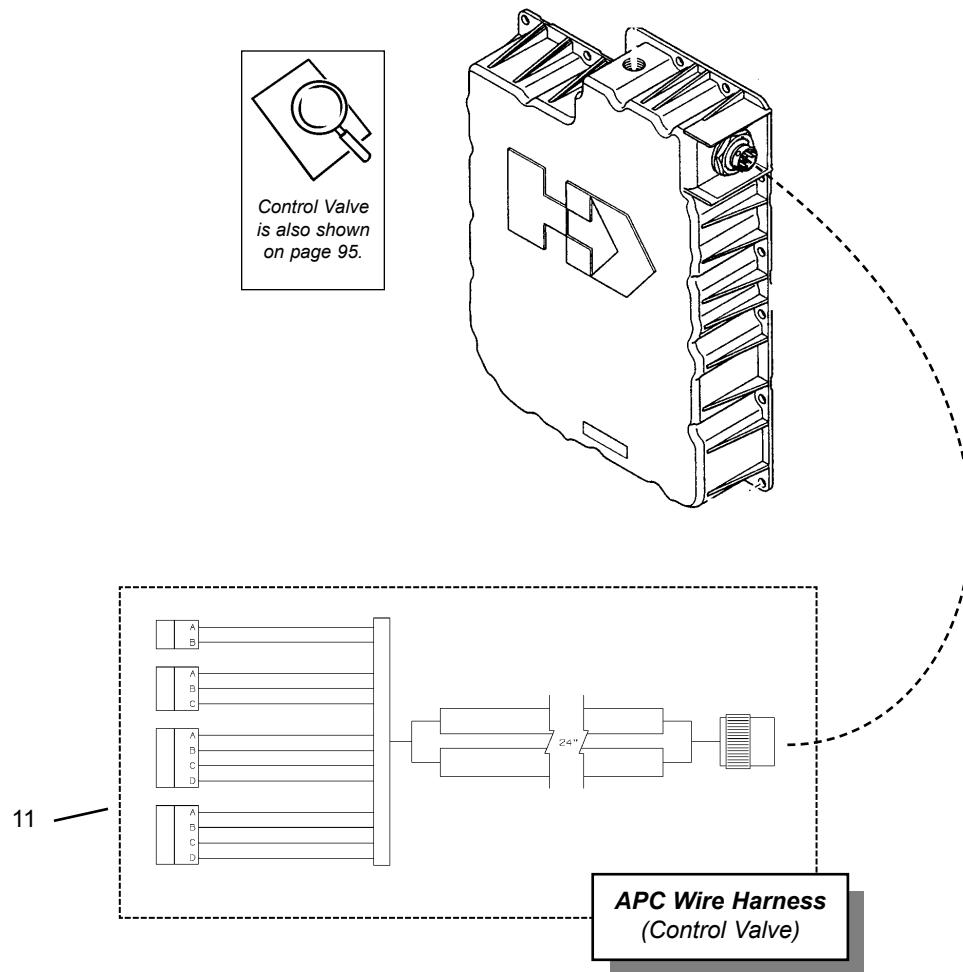
**Connects to additional
wire harnesses located in
the rear-left area under
the transmission cover.**

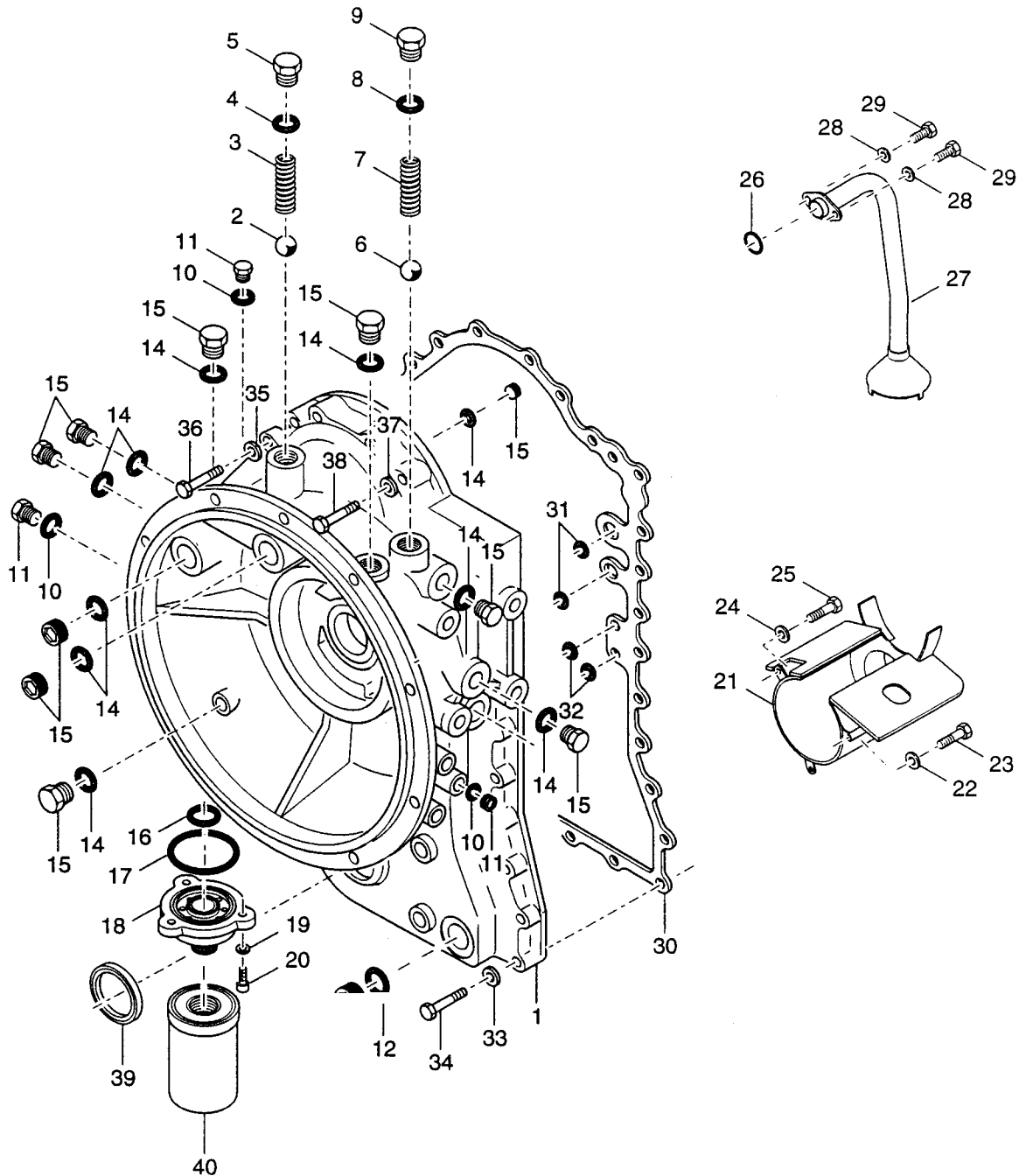


Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	L50051	1/4"-20 WHIZ NUT	AR	10 ^b	105615	APC120 CONTRLR. & DISPLAY . .	1
02	105610	DISPLAY STAND-OFF	2	11	105103	HARNESS, CONTROL VALVE	1
03	105285	DISPLAY COVER	1	12	105104	HARNESS, APC CONTROLLER . .	1
04	105286	CONTROLLER MOUNT	1	13	105969	FUSE, 1 AMP (<i>slow-blow</i>)	1
05	105609	CONTROLLER STAND-OFF	2			(Used in 105104 APC wire harness)	
06	105611	1/4"x3/4" TRUSS BOLT (<i>black</i>)	2				
07 ^a	NSS	DISPLAY TRANS. CONTROLLER .	1				
08	NSS	BRACKET (<i>included with item 10</i>) .	3				
09	650835	1/4"-20x1" BOLT	3				

a Display is not available separately; it is included with the controller—item #10.

b Includes item #7, display.

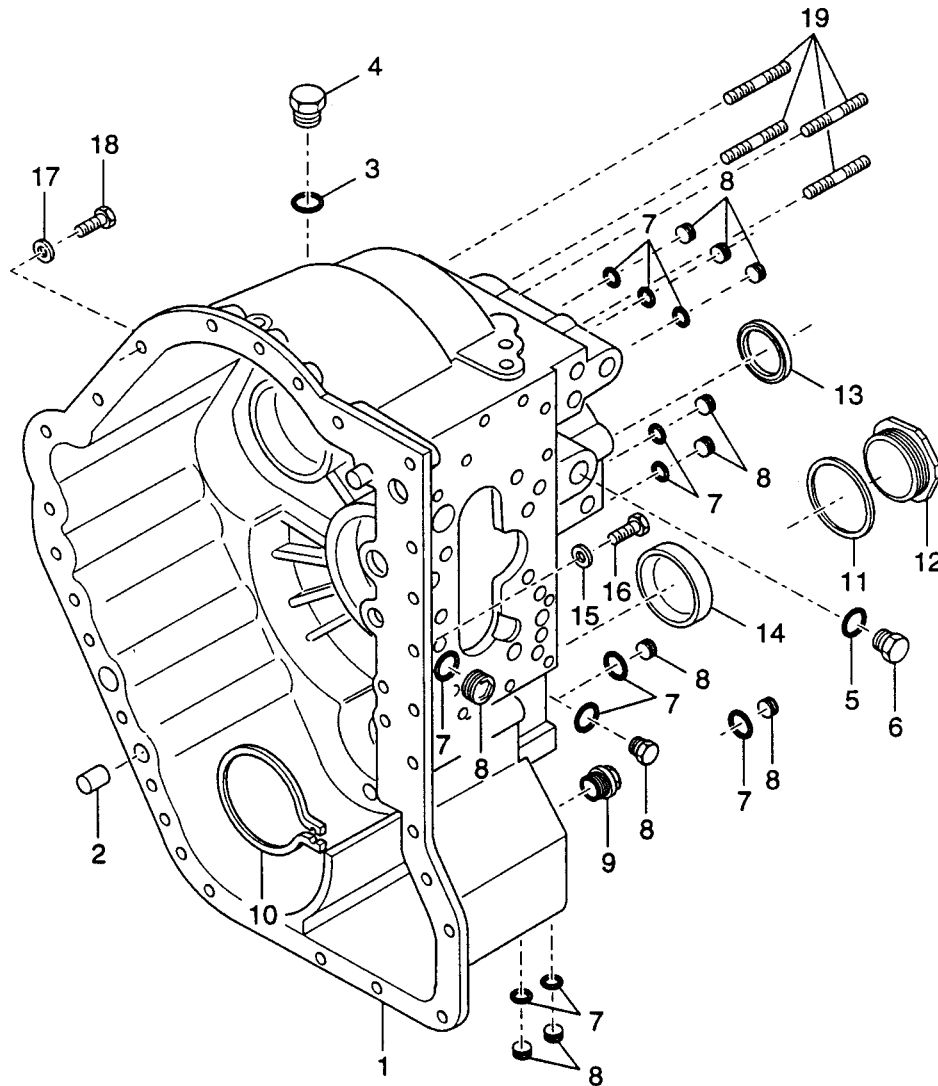




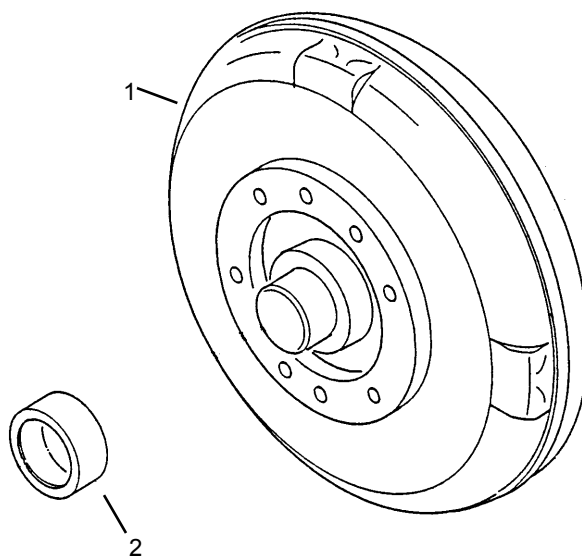
Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	L99661	CONVERTER HSG. ASY.	1	22	L99029	SCREW LOCKWASHER.	2
02	L99662	BALL	1	23	L99679	MOUNTING SCREW.	2
03	L99663	BY-PASS SPRING.	1	24	L99029	SCREW LOCKWASHER.	1
04	L99664	PLUG O-RING (<i>part of item 5</i>)	1	25	L99269	MOUNTING SCREW.	1
05	L99665	PLUG (<i>includes item 4</i>)	1	26	L99681	SUCTION TUBE O-RING	1
06	L99666	BALL	1	27	L99682	SUCTION TUBE ASY.	1
07	L99667	SAFETY VALVE SPRING	1	28	L99029	SCREW LOCKWASHER.	2
08	L99668	PLUG O-RING (<i>part of item 9</i>)	1	29	L99679	MOUNTING SCREW.	2
09	L99669	PLUG (<i>includes item 8</i>)	1	30	L99683	CASE GASKET	1
10	L99670	PLUG O-RING (<i>part of item 11</i>) ..	3	31	L99680	CASE O-RING	2
11	L99671	PLUG (<i>includes item 10</i>)	3	32	L98312	CASE O-RING	2
14	L99672	PLUG O-RING (<i>part of Item 15</i>) ..	10	33	L99029	SCREW LOCKWASHER.	14
15	L99673	PLUG (<i>includes item 14</i>)	10	34	L99045	CASE SCREW	14
16	L99674	FILTER ADAPTER O-RING.	1	35	L99029	SCREW LOCKWASHER.	1
17	L99675	FILTER ADAPTER O-RING.	1	36	L99285	CASE SCREW	1
18	L99676	FILTER ADAPTER.	1	37	L99029	SCREW LOCKWASHER.	5
19	L99029	SCREW LOCK WASHER	3	38	L99684	CASE SCREW	5
20	L99677	ADAPTER SCREW	3	39	L99685	FRONT OUTPUT SHAFT SEAL ...	1
21	L99678	OIL BAFFLE	1	40	L99440	TRANSMISSION FILTER	1

Transmission Case Group

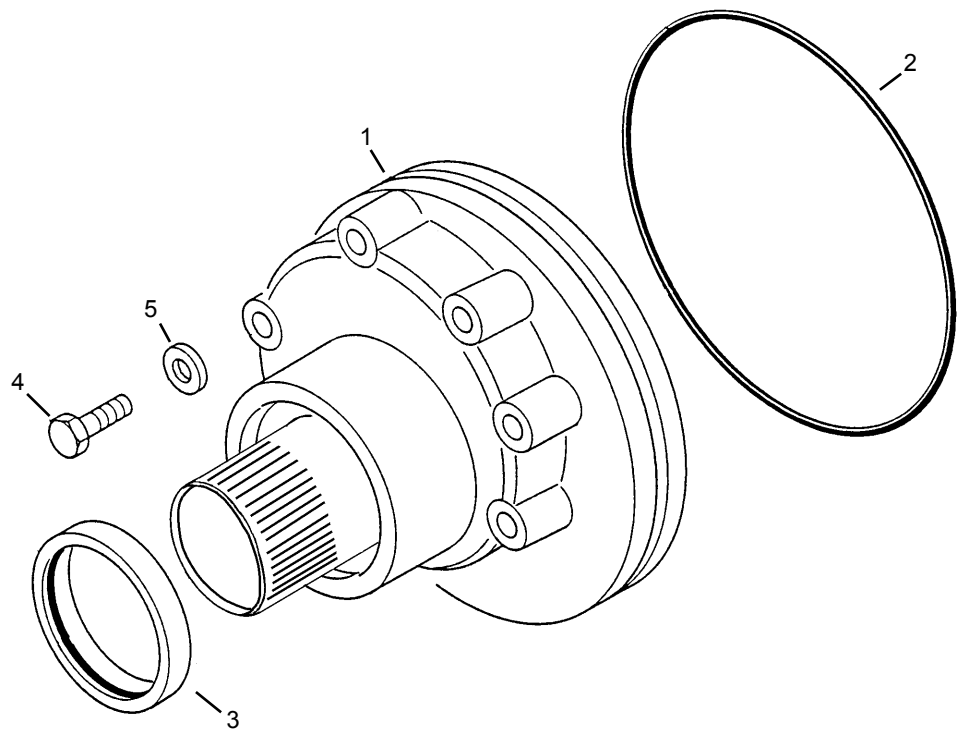
DL Series Dynalift



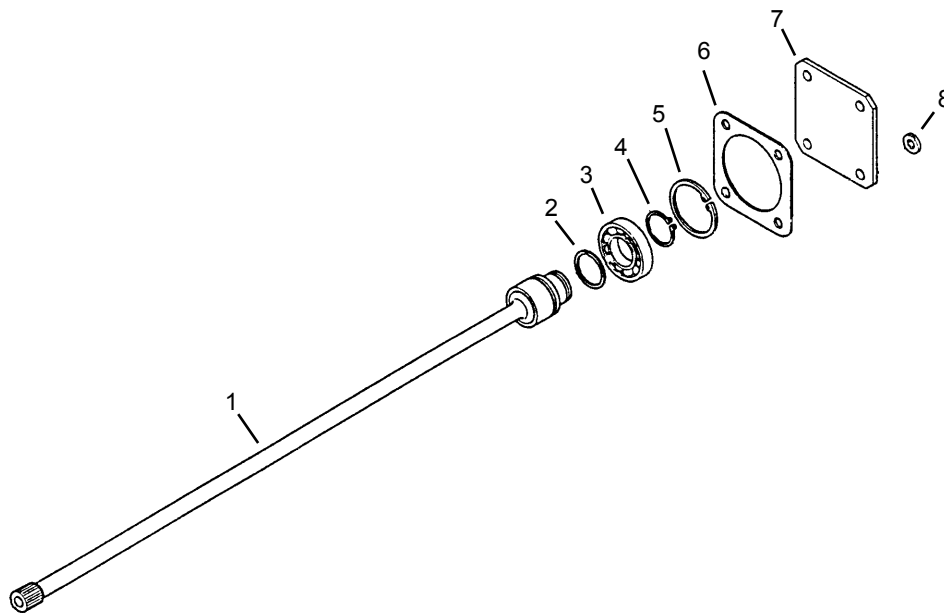
Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	L99686	TRANSMISSION CASE.	1	11	L94818	PLUG GASKET.	1
02	L99786	CASE/HOUSING PIN.	2	12	L99689	PLUG.	1
03	L99672	PLUG O-RING (part of item 4) ...	1	13	L99685	REAR SHAFT SEAL.	1
04	L99673	PLUG (includes item 3)	1	14	L99690	SHAFT BORE PLUG.	1
05	L99687	PLUG O-RING (part of item 6) ...	1	15	L99029	CASE SCREW LOCKWASHER ...	5
06	L99688	PLUG (Includes item 5)	1	16	L99285	CASE SCREW.	5
07	L99670	PLUG O-RING (part of item 8) ...	11	17	L99029	CASE SCREW LOCKWASHER ...	4
08	L99671	PLUG (includes item 7)	11	18	L99285	CASE SCREW.	4
09	L98425	MAGNETIC DRAIN PLUG.	1	19	L99691	1/2"-20 STUD.	4
10	L94770	BEARING SNAP RING.	1				



Ref. No.	Part No.	Description	Qty. Req.
01	L500440	CONVERTER & BUSHING ASY....	1
02	L99693	PILOT BUSHING.....	1
		<i>(included with item 1)</i>	



Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	L99702	CHARGE PUMP	1	03	L99704	PUMP OIL SEAL	1
		(includes items 2 and 3)		04	L99705	PUMP MTG. SCREW	6
02	L99703	PUMP O-RING	1	05	L99706	SCREW SEAL WASHER	6

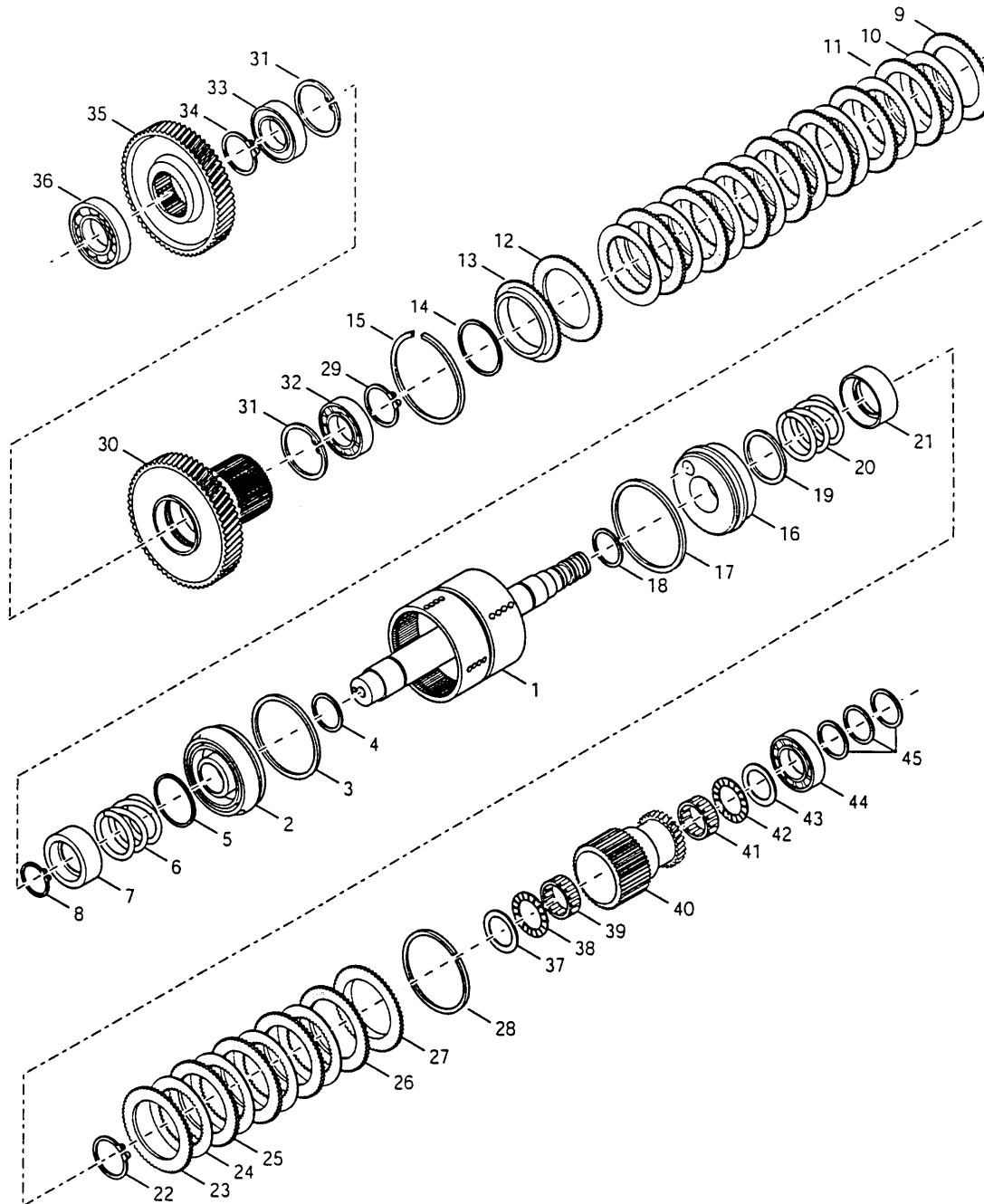


Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	L99694	PUMP DRIVE SHAFT	1	05	L99697	BEARING RETAINING RING	1
02	L99695	PISTON RING	1	06	L99698	HOLE COVER GASKET	1
03	L94856	DRIVE SHAFT BEARING	1	07	L99699	HOLE COVER	1
04	L99696	BEARING SNAP RING	1	08	L99700	STUD NUT LOCKWASHER	4

Transmission

Gears and Shaft - Froward Low/High

DL Series Dynalift



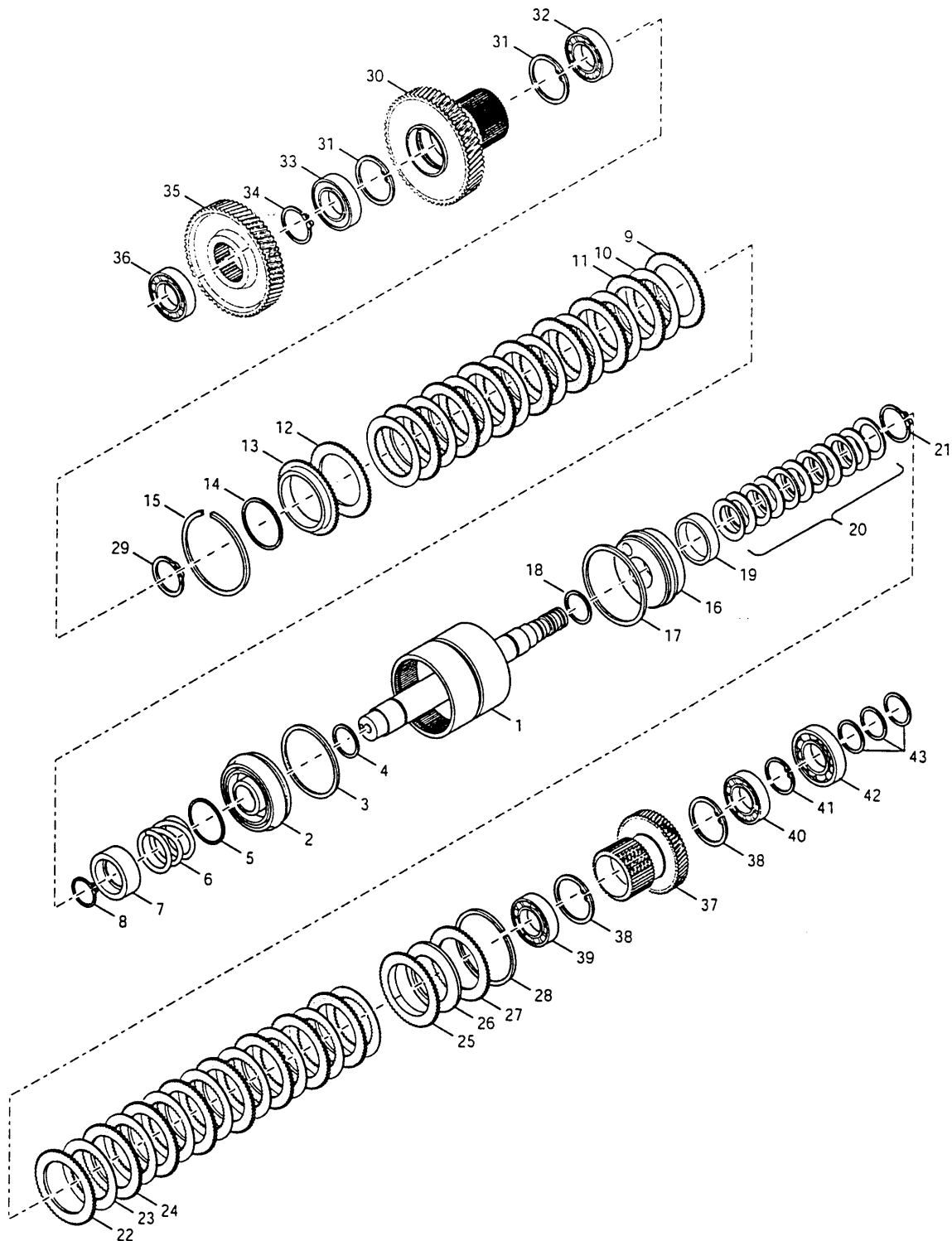
Gears and Shaft - Forward Low/High

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	L500601	DRUM & PLUG ASY.	1	20	L99710	PISTON RETURN SPRING	1
02	L99708	PISTON & SEALS ASY.	1	21	L99711	SPRING RETAINER	1
		<i>(includes items 3 & 4)</i>		22	L94849	RETAINER SNAP RING	1
03	L96065	PISTON OUTER SEAL	1	23	L99712	OUTER HALF DISC	1
		<i>(included with item 2)</i>		24	L99713	INNER DISC	4
04	L96066	PISTON INNER SEAL	1	25	L99714	OUTER DISC	3
		<i>(includes item 2)</i>		26	L99712	OUTER HALF DISC	1
05	L99709	PISTON WEAR PLATE	1	27	L99718	DISC BACKING PLATE	1
06	L99710	PISTON RETURN SPRING	1	28	L96060	PLATE SNAP RING	1
07	L99711	SPRING RETAINER	1	29	L98266	BEARING SNAP RING	1
08	L94849	RETAINER SNAP RING	1	30	L500604	FWD. LOW CLUTCH GEAR (54T) .	1
09	L99712	OUTER HALF DISC	1	31	L99721	FL BRG. LOCATING RING	2
10	L99713	INNER DISC	8	32	L94898	FL GEAR INNER BEARING	1
11	L99714	OUTER DISC	7	33	L99722	GEAR OUTER BEARING	1
12	L99712	OUTER HALF DISC	1			<i>(Shield Out)</i>	
13	L500602	END PLATE AND SEAL ASY.	1	34	L98266	BEARING SNAP RING	1
		<i>(includes item 14)</i>		35	L99723	FWD. DRIVEN GEAR (42T)	1
14	L500603	BACKING PLATE SEAL	1	36	L99724	FL/FH SHAFT FRONT BRG.	1
		<i>(Included in item 13)</i>		37	L99725	THRUST BEARING SPACER	1
15	L96060	PLATE SNAP RING	1	38	L99726	FH GEAR THRUST BEARING	1
16	L99708	PISTON & SEALS ASY.	1	39	L99727	FH GEAR NEEDLE BEARING	1
		<i>(includes items 17 & 18)</i>		40	L99728	FH CLUTCH GEAR (34T)	1
17	L96065	PISTON OUTER SEAL	1	41	L99727	FH GEAR NEEDLE BEARING	1
		<i>(included in item 16)</i>		42	L99726	FH GEAR THRUST BEARING	1
18	L96066	PISTON INNER SEAL	1	43	L99725	THRUST BEARING SPACER	1
		<i>(included in item 16)</i>		44	L99729	FL/FH SHAFT REAR BEARING ...	1
19	L99709	PISTON WEAR PLATE	1	45	L99730	FL/FH SHAFT PISTON RING	3

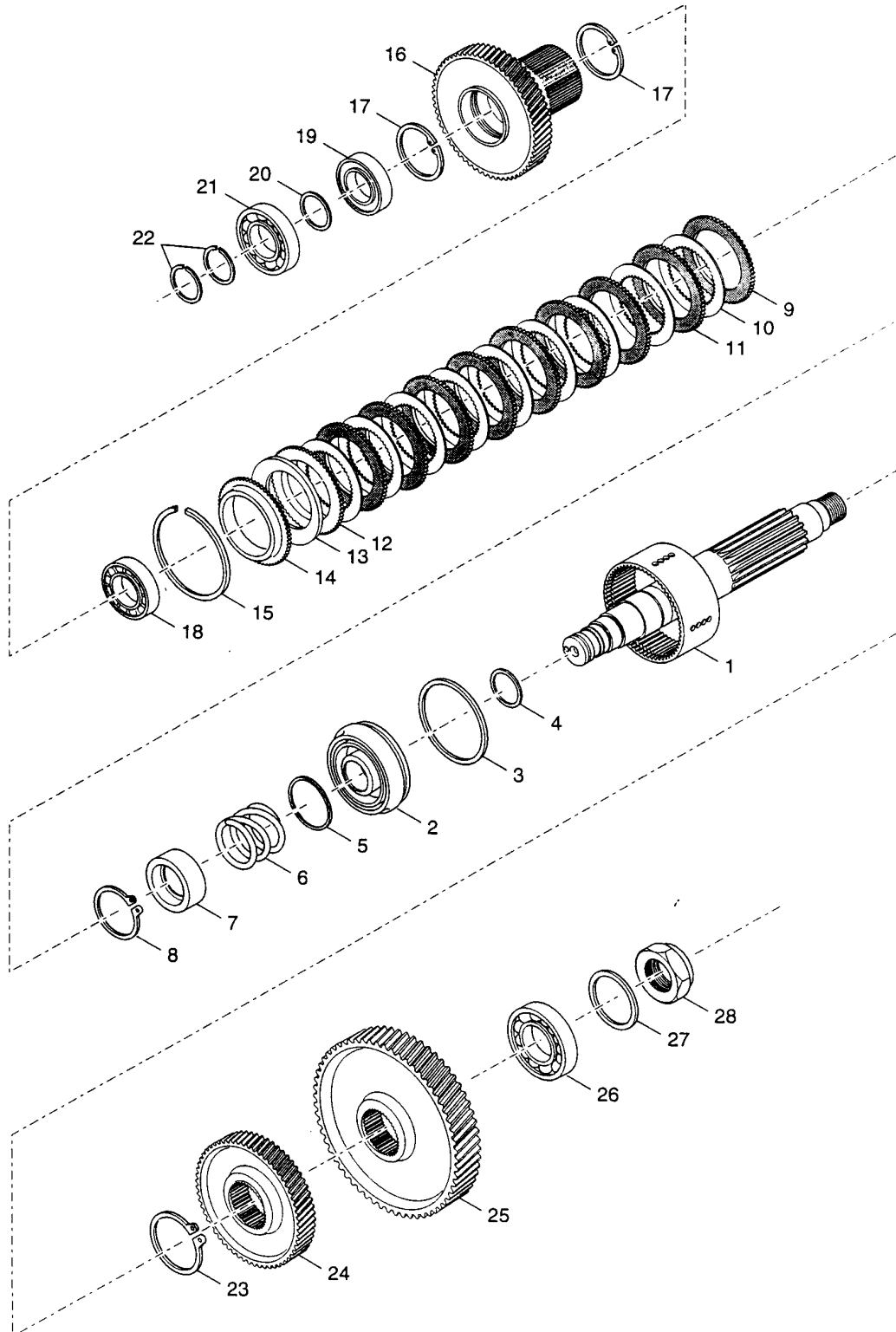
Transmission

Gears and Shaft - Reverse/1st

DL Series Dynalift



Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	L500605	DRUM & PLUG ASSEMBLY	1	20	L99787	RETURN SPRING	1
02	L99708	PISTON & SEALS ASSEMBLY	1			(<i>belleville washer</i>)	
		(<i>includes items 3 & 4</i>)		21	L94849	SNAP RING	1
03	L96065	PISTON OUTER SEAL	1	22	L99712	OUTER HALF DISC	1
		(<i>included in item 2</i>)		23	L99713	INNER DISC	8
04	L96066	PISTON INNER SEAL	1	24	L99714	OUTER DISC	7
		(<i>includes item 2</i>)		25	L99712	OUTER HALF DISC	1
05	L99709	PISTON WEAR PLATE	1	26	L99733	MODULATION SPRING	1
06	L99710	PISTON RETURN SPRING	1	27	L99718	DISC BACKING PLATE	1
07	L99711	SPRING RETAINER	1	28	L96060	PLATE SNAP RING	1
08	L94849	RETAINER SNAP RING	1	29	L98266	BEARING SNAP RING	1
09	L99712	OUTER HALF DISC	1	30	L500604	REV. CLUTCH GEAR (54T)	1
10	L99713	INNER DISC	8	31	L99721	R GEAR LOCATING RING	2
11	L99714	OUTER DISC	7	32	L94898	R GEAR INNER BEARING	1
12	L99712	OUTER HALF DISC	1	33	L99722	R GEAR OUTER BEARING	1
13	L500602	END PLATE AND SEAL ASY	1			(<i>shield out</i>)	
		(<i>includes item 14</i>)		34	L98266	BEARING SNAP RING	1
14	L500603	BACKING PLATE SEAL	1	35	L99734	REV. DRIVEN GEAR (50T)	1
		(<i>included in item 13</i>)		36	L99724	R/1 SHAFT FRONT BEARING	1
15	L96060	PLATE SNAP RING	1	37	L99735	1ST CLUTCH GEAR (30T)	1
16	L99708	PISTON & SEALS ASY	1	38	L99736	BEARING LOCATING RING	2
		(<i>includes items 17 & 18</i>)		39	L99737	1ST GEAR INNER BEARING	1
17	L96065	PISTON OUTER SEAL	1	40	L99738	1ST GEAR OUTER BEARING	1
		(<i>include in item 16</i>)				(<i>shield out</i>)	
18	L96066	PISTON INNER SEAL	1	41	L99739	BEARING SNAP RING	1
		(<i>included in item 16</i>)		42	L500600	R/1 SHAFT REAR BEARING	1
19	L99709	PISTON WEAR PLATE	1	43	L99730	R/1 SHAFT PISTON RING	3

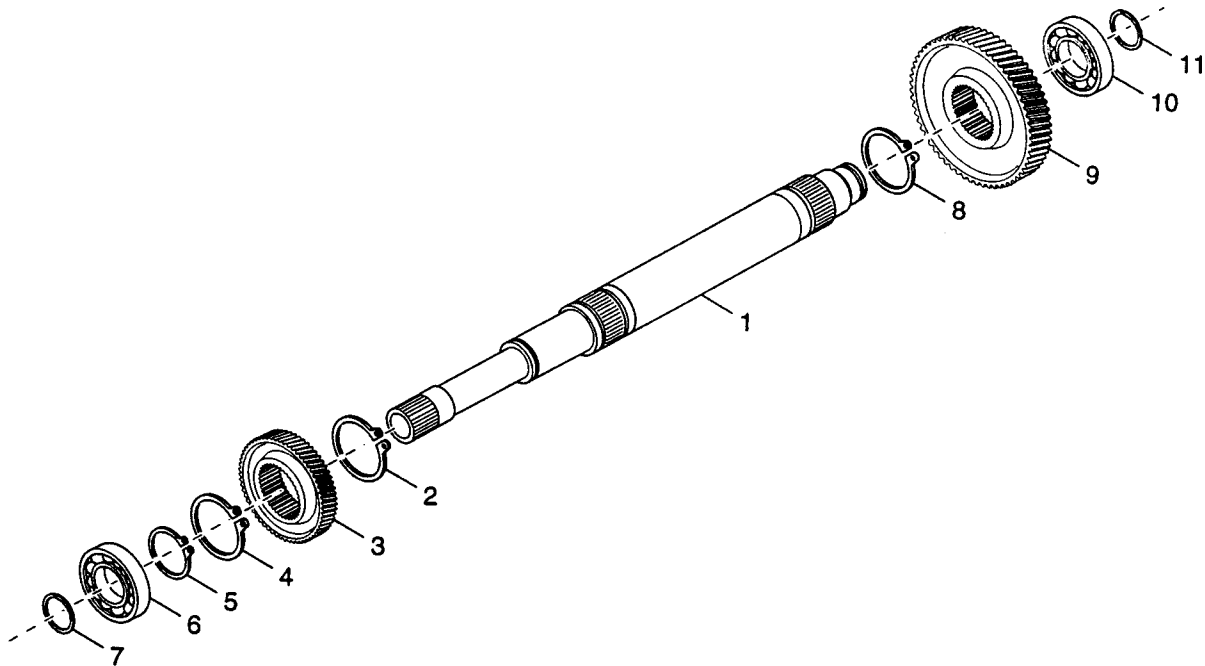


Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	L99745	2ND SHAFT, HUB		15	L96060	BACKING PLATE SNAP RING	1
		DRUM & PLUG ASSEMBLY	1	16	L99746	2ND CLUTCH GEAR (52T).	1
02	L99708	PISTON & SEALS ASSEMBLY . . .	1	17	L99736	BEARING LOCATING RING	2
		(includes items 3 & 4)		18	L99737	2ND GEAR INNER BEARING. . . .	1
03	L96065	PISTON OUTER SEAL	1	19	L99738	2ND GEAR OUTER BRG.	1
		(part of item 2)				(shield out)	
04	L96066	PISTON INNER SEAL.	1	20	L99747	BEARING SUPPORT WASHER . . .	1
		(part of item 2)		21	L99740	2ND SHAFT FRONT BEARING . . .	1
05	L99709	PISTON WEAR PLATE	1	22	L99730	2ND SHAFT PISTON RING	2
06	L99710	PISTON RETURN SPRING	1	23	L99748	GEAR RETAINER SNAP RING. . .	1
07	L99711	SPRING RETAINER	1	24	L99749	LOWER OUTPUT/	
08	L94849	RETAINER SNAP RING	1			DRIVE GEAR (41T)	1
09	L99712	OUTER HALF DISC	1	25	L99750	UPPER OUTPUT/	
10	L99713	CLUTCH INNER DISC	8			DRIVE GEAR (59T)	1
11	L99714	CLUTCH OUTER DISC.	7	26	L99751	2ND SHAFT REAR BEARING	1
12	L99712	OUTER HALF DISC	1	27	L99752	OUTPUT FLANGE WASHER	1
13	L99733	MODULATION SPRING	1	28	L99753	OUTPUT FLANGE NUT	1
14	L99718	DISC BACKING PLATE.	1				

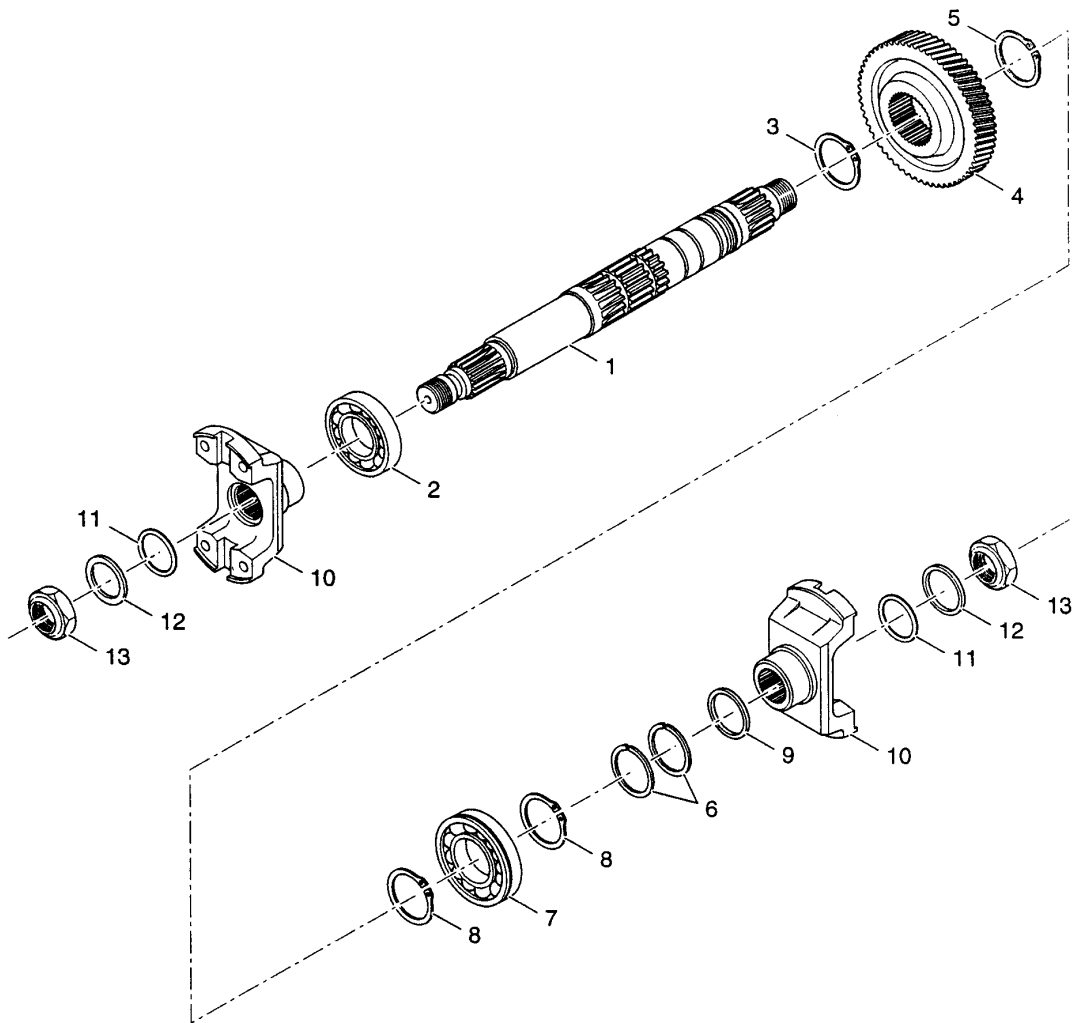
Transmission

Gears and Shaft - Input

DL Series Dynalift



Ref. No.	Part No.	Description	Qty. Req.
01	L99741	INPUT SHAFT.....	1
02	L99742	F/L GEAR SNAP RING.....	1
03	L99743	FWD/LOW GEAR (26T).....	1
04	L98266	GEAR SNAP RING.....	1
05	L99696	BEARING SNAP RING.....	1
06	L500600	SHAFT FRONT BEARING.....	1
07	L99730	SHAFT PISTON RING.....	1
08	L98266	F/H GEAR SNAP RING.....	1
09	L99744	FWD/HIGH GEAR (62T).....	1
10	L99740	INPUT SHAFT REAR BRG.....	1
11	L99730	SHAFT PISTON RING.....	1



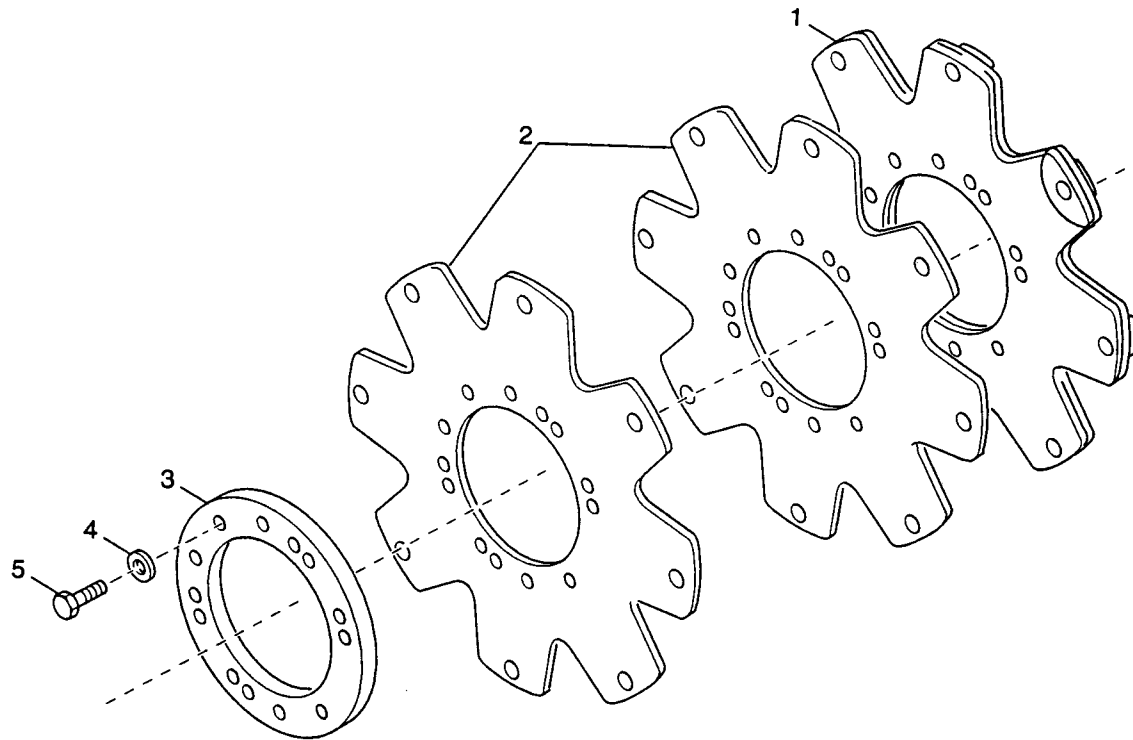
Ref. No.	Part No.	Description	Qty. Req.
01	L99754	OUTPUT SHAFT ASSEMBLY	1
02	L99755	SHAFT FRONT BEARING	1
03	L99756	SNAP RING	1
04	L99757	OUTPUT SHAFT GEAR	1
05	L99756	SNAP RING	1
06	L99758	SHAFT PISTON RING	2
07	L99763	SHAFT REAR BEARING	1

Ref. No.	Part No.	Description	Qty. Req.
08	L99759	SNAP RING	1
09	L99760	OUTPUT FLANGE SPACER	1
10	L99761	OUTPUT FLANGE	2
11	L99762	FLANGE O-RING	2
12	L99752	FLANGE WASHER	2
13	L99753	FLANGE NUT	2

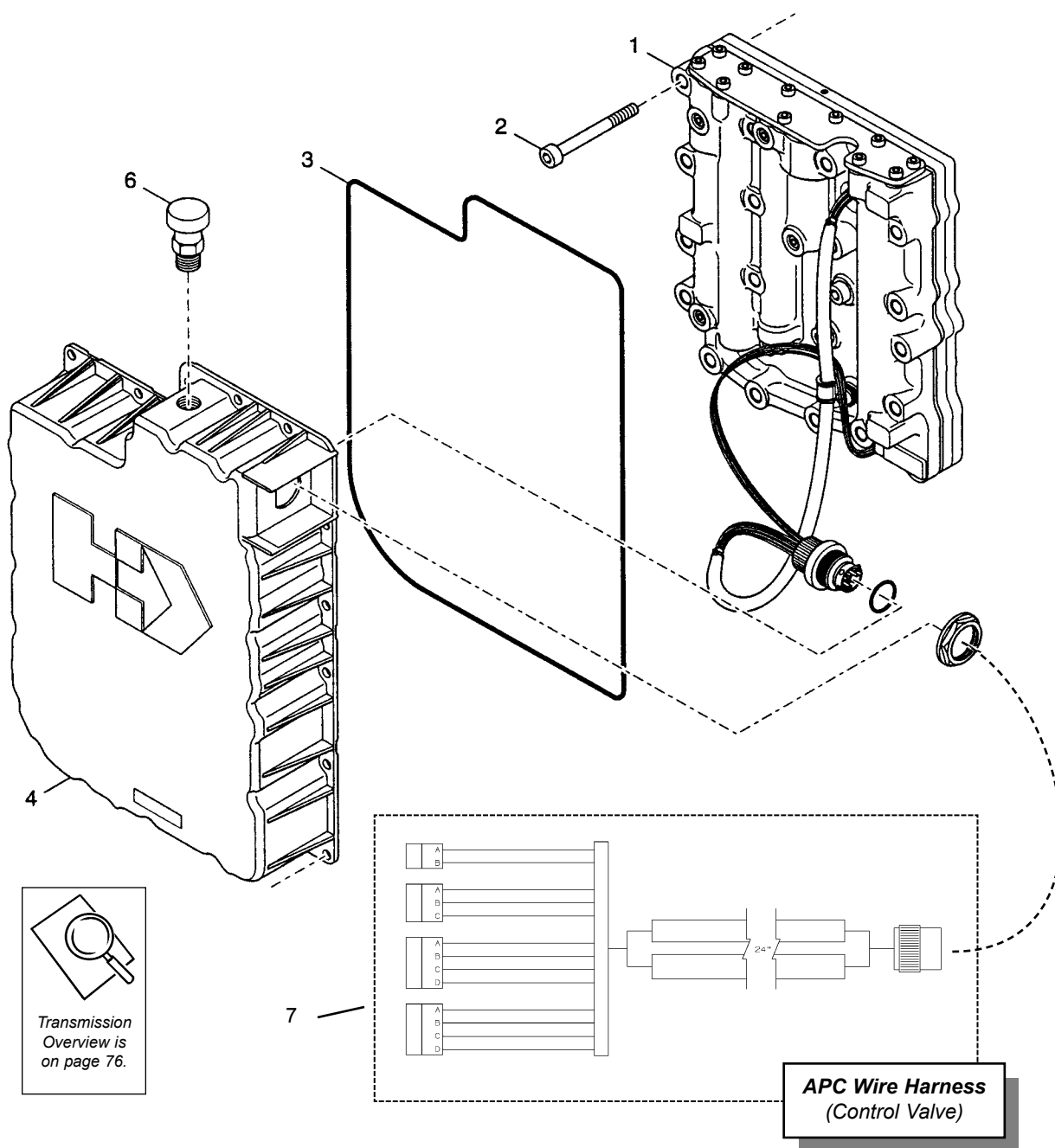
Transmission

Drive Plate Group

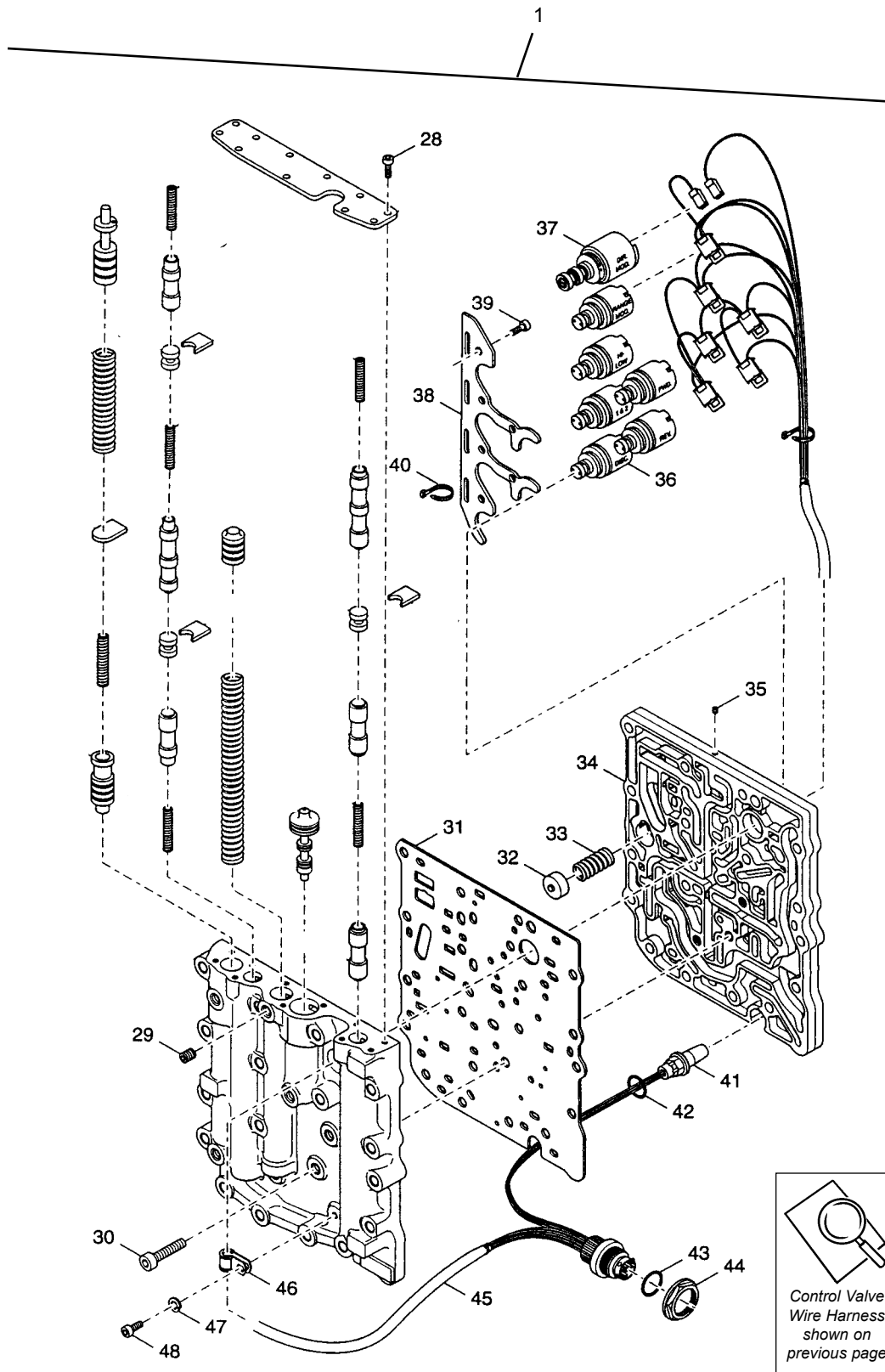
DL Series Dynalift



Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	L99784	DRIVE PLATE ASY..... 1 (includes items 2-5)	1	03	L97516	PLATE BACKING RING	1
02	NSS	DRIVE PLATE (includes item 1) ...	2	04	L99030	SCREW LOCKWASHER.....	6
				05	L99785	MOUNTING SCREW.....	6



Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	105082	CONTROL VALVE ASSEMBLY . . .	1	05	L99768	COVER SCREW	20
02	L99765	VALVE MOUNTING SCREW	2	06	L94824	AIR BREATHER (vent)	1
03	L99766	PROTECTION COVER SEAL	1			(part of item 4)	
04	L99767	PROTECTION COVER ASY.	1	07	105103	HARNESS, CONTROL VALVE	1
		(includes item 6)					



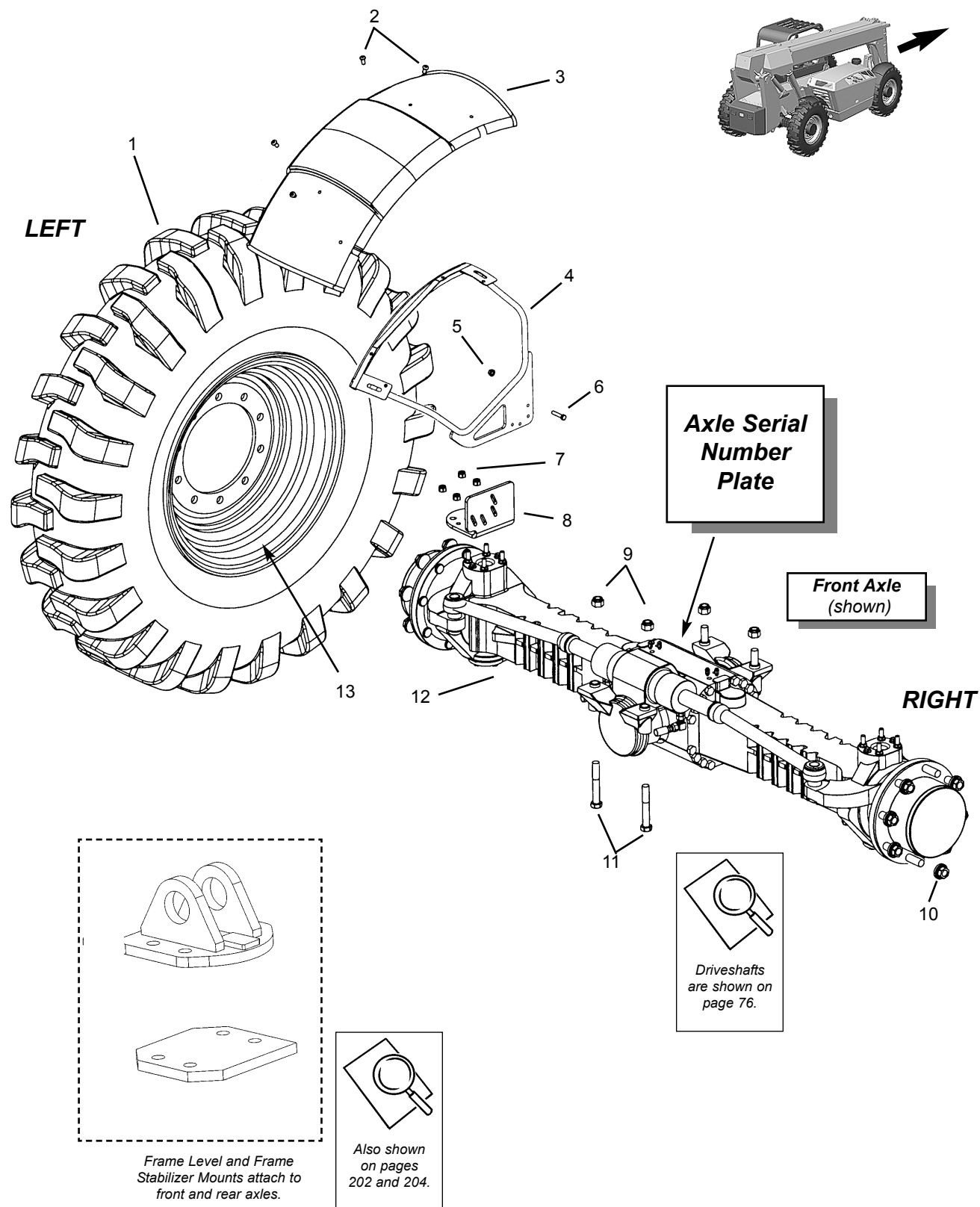
DL7/ DL9/ DL11/ DL12**Transmission
Control Valve Assembly**

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	105082	CONTROL VALVE ASSEMBLY. 1 <i>(includes all items shown)</i>		40	L99834	WIRING STRAP 6	
28	L99769	COVER SCREW 11		42	L99778	SENSOR O-RING 1	
29	L99770	CHECK PORT PLUGS 2		41	NSS	SPEED SENSOR <i>(included w/#45)</i> . 1	
30	L99771	SOLENOID PLATE SCREW 3		42	L99778	SENSOR O-RING 1	
32	L99772	BYPASS VALVE SPOOL 1		43	L99779	JAM NUT O-RING 1	
33	L99773	VALVE SPRING 1		44	NSS	JAM NUT <i>(included w/#45)</i> 1	
35	L99774	PLUG 6		45	105851	HARNESS & SPEED SENSOR ASY. <i>(includes items 41-44)</i> 1	
36	L99775	SOLENOID 6		46	L99781	WIRING CLAMP 1	
37	104869	ELEC. CONTR. MODULE VALVE . . 1		47	L99782	SCREW LOCKWASHER 1	
39	L99769	CLAMP SCREW 6		48	L99769	CLAMP SCREW 1	

Axle

Front and Rear - External Components

DL Series Dynalift



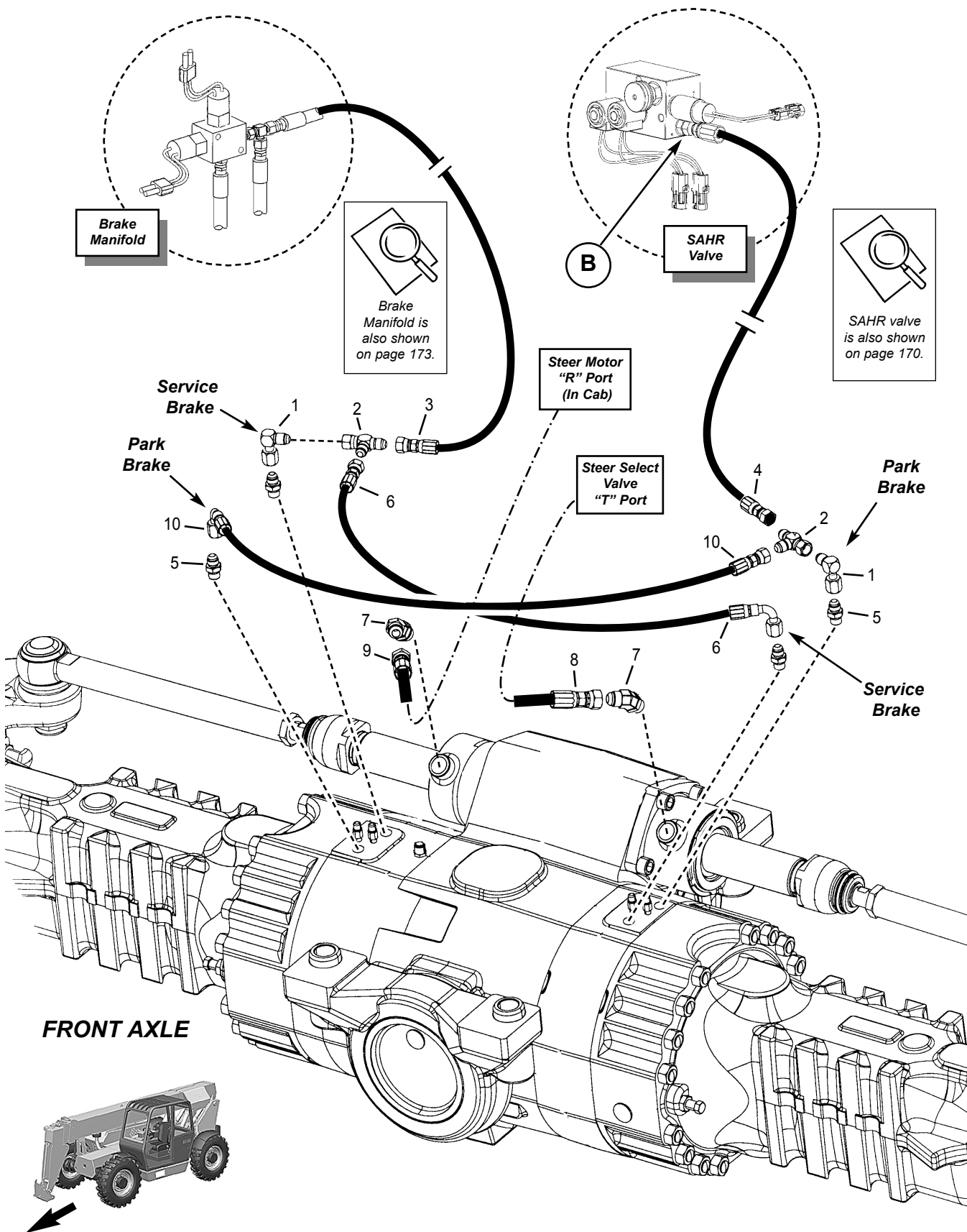
Front and Rear - External Components

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01 ^a		13.00x24 TIRE SET		05	090666	3/8"-16 FLANGE LOCK NUT	4
	L47270	TIRE/13.00x24TH 12PLY	4	06	650491	3/8"-16x1-1/4" BOLT	4
	L69114	WHEEL/24 x 9.-- GR	4	07	102587	NUT	4
01 ^a		13.00x24 TIRE SET (<i>Rock</i>)		08		MOUNT, FENDER BRACKET	
	L71758	TIRE, 13.00x24 12PLY ROCK	4		102569	(<i>Left-Front / Right-Rear</i>)	2
	L69114	WHEEL/24 x 9.-- GR	4		102570	(<i>Right-Front / Left-Rear</i>)	2
01 ^a		13.00x24 TIRE SET (<i>Foam Filled</i>)		09	102781	1" NYLON INSERT NUT	8
	L47270	TIRE/13.00x24TH 12PLY	4	10	L69734	M22-1.5 WHEEL NUT	40
	L69114	WHEEL/24 x 9.-- GR	4	11	102779	1"x5-1/2" BOLT GR8	8
01		14.00x24 TIRE SET		12 ^b		AXLE ASSEMBLY (223 axle)	
	L60198	TIRE/14.00x24TH 12PLY	4		210246	FRONT (<i>with internal park brake</i>) . . .	1
	L69114	WHEEL/24 x 9.-- GR	4		210247	REAR.	1
01		14.00x24 TIRE SET (<i>Rock</i>)		13	L69114	WHEEL RIM 24x9.00	4
	L71723	TIRE 14.-- x 24 ROCK	4				
	L71577	WHEEL, 10.00VAX24	4				
01		14.00X24 TIRE SET (<i>Foam Filled</i>)		--	L63222	-- ITEMS NOT SHOWN -- VALVE STEM (<i>on wheel rim</i>)	AR
	L60198	TIRE/14.00x24TH 12PLY	4				
	L69114	WHEEL/24 x9.-- GR	4	a		When ordering, specify right or left side.	
01 ^b	210152	13X24 SOLID TIRE/WHEEL SET	4				
02	L50253	3/8"-16 BUTTON HD BOLT	16	b		Axle only—does not include other items shown on the facing page.	
03	L99951	FENDER	4				
04		FENDER MOUNT BRACKET					
	105202	(<i>Left-Front / Right-Rear</i>)	2				
	105203	(<i>Right-Front / Left-Rear</i>)	2				

Axle

Front Axle - Steering and Brake Lines Group

DL Series Dynalift



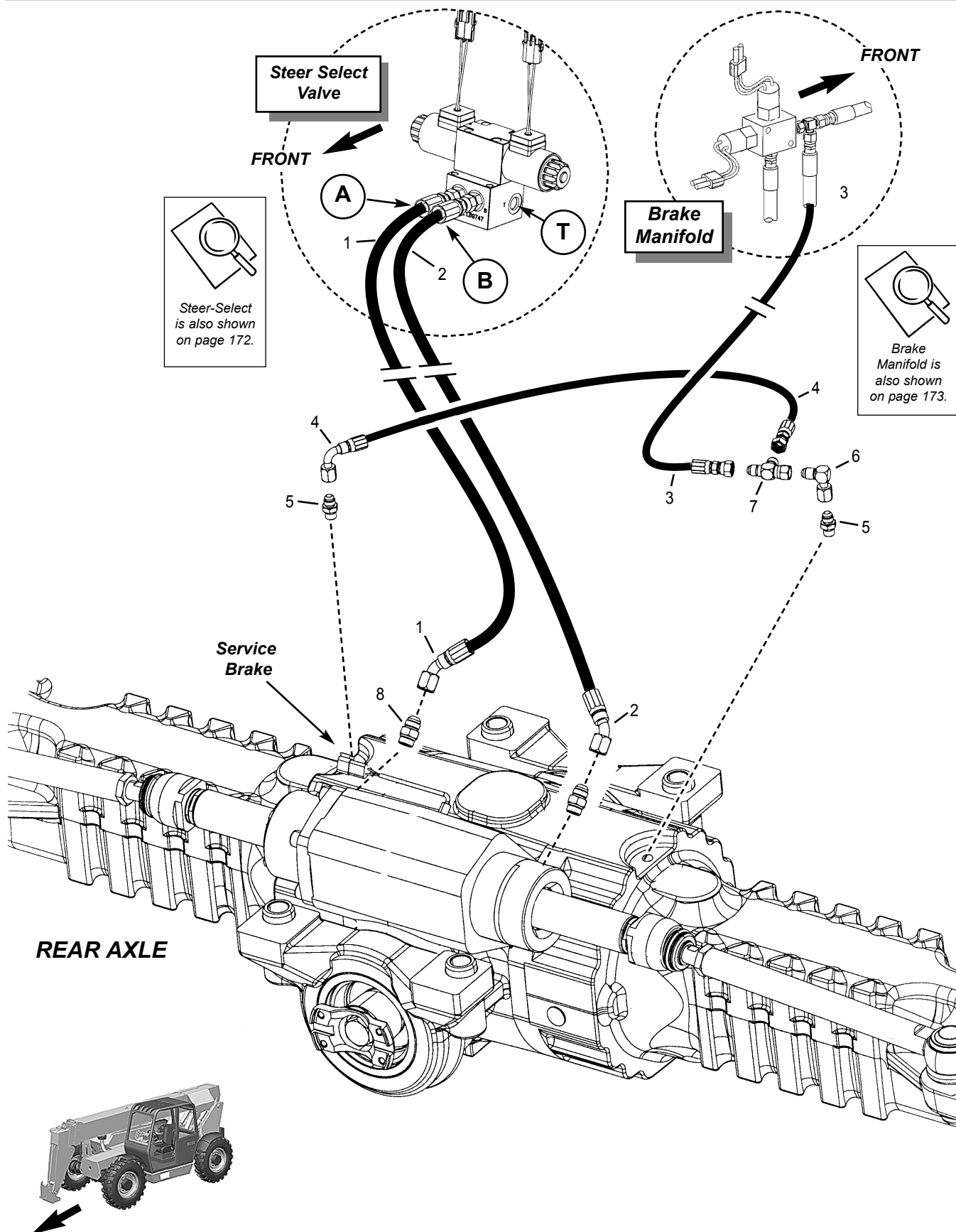
Front Axle - Steering and Brake Lines Group

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	091039	ADAP., -6JICFS -6JICM 90°	2	06	L69903	HOSE, -4 A6/DS6 17"	1
02	072806	ADAP., -6 SWIVEL RUN TEE	2	07	076880	ADAP., -8ORM -8JICM 45°	2
03	102840	HOSE, -4 A4/A6 90"	1	08	210602	HOSE, -6 A6/A8 125"	1
04	210601	HOSE, -6 A6/A6 85"	1	09	210603	HOSE, -6 A8/A8 108"	1
05	L66139	ADAP., M14x1.5 -6-JICM.	4	10	L69903	HOSE, -4 A6/DS6 17"	1

Axle

Rear Axle - Steering and Brake Lines Group

DL Series Dynalift



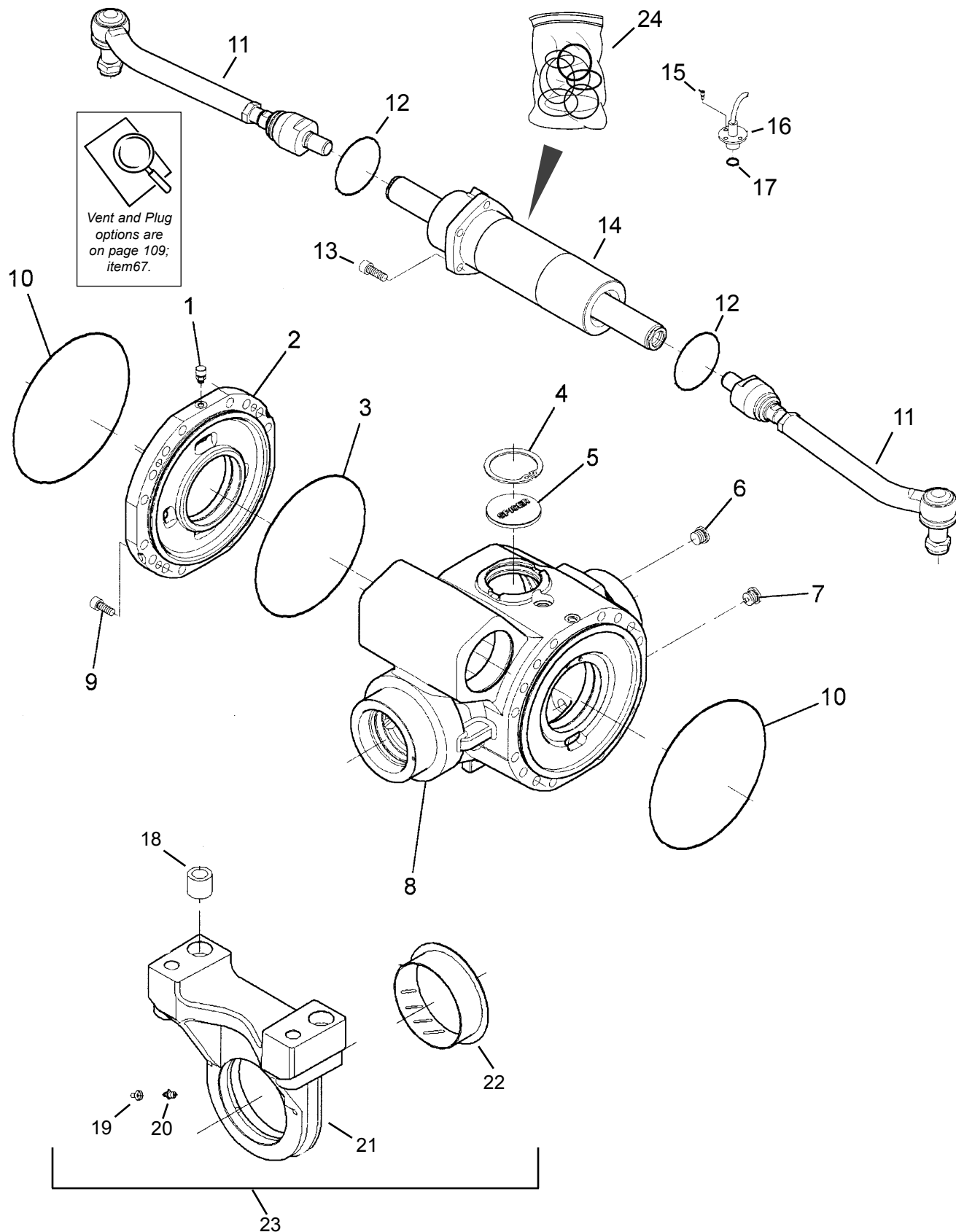
Rear Axle - Steering and Brake Lines Group

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	101319	HOSE, -6 A6/NS8 40"	1	05	L66139	ADAP., M14x1.5 -6-JICM.	2
02	101319	HOSE, -6 A6/NS8 40"	1	06	091039	ADAP., -6JICFS -6JICM 90°	1
03	210600	HOSE, -4 A6/A4 58"	1	07	072806	ADAP., -6 SWIVEL RUN TEE	1
04	L69904	HOSE, -4 A6/DS6 20"	1	08	054626	ADAP., -8ORM -8JICM	2

Axle

DL Series Dynalift

Front and Rear Axle - Steer Cylinder, Central Housing, and Trunnion

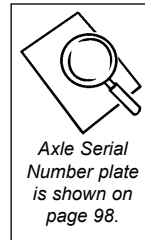


Front and Rear Axle - Steer Cylinder, Central Housing, and Trunnion

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01		VENT (shown)	1	15 ^a	106099	BOLT	3
	50220030	Note a		16 ^a	106100	SENSOR, ALIGNMENT.	1
	50220030	Note b		17 ^a	106101	O-RING	1
		PLUG (not shown)	1	18	106078	BUSHING	4
	L98419	Note c		19	L500496	PLUG	2
02	106002	INTERMEDIATE COVER	1	20	L98355	GREASE FITTING.	2
03	106003	O-RING	1	21	106080	SUPPORT, AXLE.	2
04	L98373	SNAP RING	1	22	106079	THRUST BUSHING.	2
05		PLUG	1	23	106081	SUPPORT ASSEMBLY	2
	L98424	(Front Axle)				(includes items 18-22)	
	104518	(Rear Axle)		24		SEAL KIT, STEER CYLINDER	1
06	104568	PLUG	1		106124	(Front Axle)	
07	104569	MAGNETIC PLUG.	1		106125	(Rear Axle)	
08	106004	HOUSING	1				
09	106005	BOLT	4				
10	106006	O-RING	2	a		Used only on the rear axle.	
11	106076	TIE ROD	2	b		Machines with axle S/N R-ITA754750 and before use a vent in this location.	
	106871	NUT, TIE ROD (not shown)	2				
12	106075	O-RING	2	c		Machines with axle S/N R-ITA754751 and up use a plug in this location—the axle vent for these units is located on the axle housing; refer to page 109, item 67.	
13	106077	BOLT	5				
14		STEER CYLINDER	1				
	106074	(Front Axle)					
	106098	(Rear Axle)					



NOTE: Quantities are for one axle.



Axle

Front Axle - Differential

DL Series Dynalift

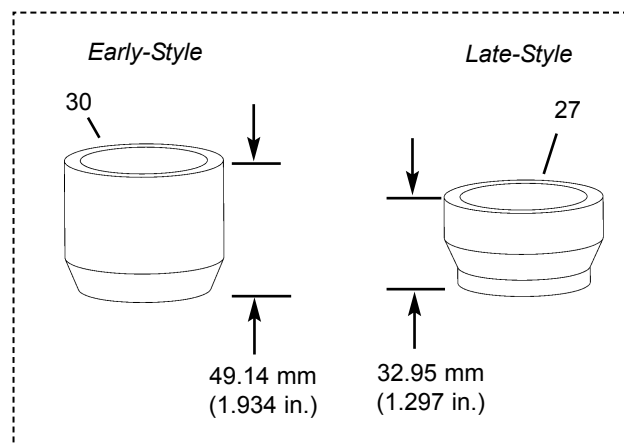
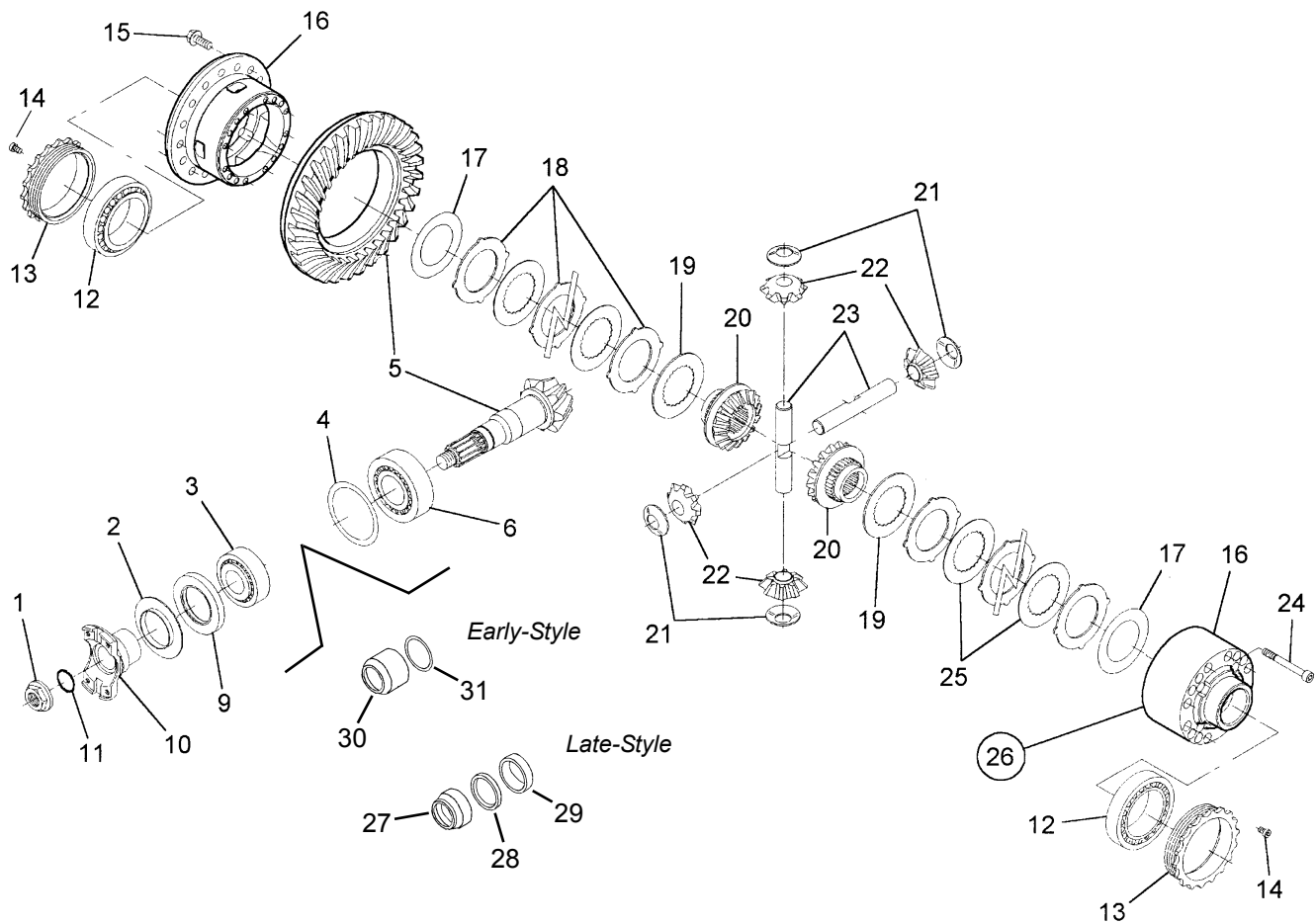


Figure 1.

Front Axle - Differential

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	106007	NUT	1	27 ^a	50220045	PINION BEARING SPACER	1
02	106008	COVER PLATE	1			(32.95 mm—length)	
03	106009	TAPER ROLLER BEARING	1	28 ^{ac}		SPACER	AR
04		SHIM	AR		50220041	SPACER, 60 x 50 x 5.0 mm	
	106010	SHIM			50220042	SPACER, 60 x 50 x 5.025 mm	
	106011	SHIM			50220043	SPACER, 60 x 50 x 5.05 mm	
	106012	SHIM			50220044	SPACER, 60 x 50 x 5.075 mm	
	106013	SHIM		29 ^{ac}		SPACER	AR
05	106014	BEVEL GEAR SET	1		50220031	SPACER, 60 x 50 x 11.8 mm	
06	106015	TAPER ROLLER BEARING	1		50220032	SPACER, 60 x 50 x 11.9 mm	
09	106102	SEAL	1		50220033	SPACER, 60 x 50 x 12.0 mm	
10	106023	FLANGE	1		50220034	SPACER, 60 x 50 x 12.1 mm	
11	106024	O-RING	1		50220035	SPACER, 60 x 50 x 12.2 mm	
12	106025	TAPER ROLLER BEARING	2		50220036	SPACER, 60 x 50 x 12.3 mm	
13	106026	RING NUT	2		50220037	SPACER, 60 x 50 x 12.4 mm	
14	L500466	BOLT	2		50220038	SPACER, 60 x 50 x 12.5 mm	
15	L500467	BOLT	16		50220039	SPACER, 60 x 50 x 12.6 mm	
16		DIFFERENTIAL CARRIER	1		50220040	SPACER, 60 x 50 x 12.7 mm	
	50220049	Note a		30 ^{be}	NA	PINION BEARING SPACER	0
	106027	Note b				(49.14 mm—length)	
17 ^a	50220046	CLUTCH DISC	2	31 ^{bd}		SHIM	AR
17 ^b		SHIM	2		106016	SHIM, 60 x 50 x 0.15 mm	
	106028	SHIM			106017	SHIM, 60 x 50 x 0.20 mm	
	106029	SHIM			106018	SHIM, 60 x 50 x 0.30 mm	
	106030	SHIM			106019	SHIM, 60 x 50 x 0.40 mm	
18	106031	DISC	10		106020	SHIM, 60 x 50 x 0.50 mm	
19	106032	DISC	2				
20	106033	DIFFERENTIAL SIDE GEAR	2				
21		FRICTION WASHER	4	a	Axle S/N P-ITA-703950 and up *		
	50220054	Note a		b	Axle S/N P-ITA-703949 and before *		
	106034	Note b		c	Use only with pinion bearing spacer item 27.		
22	106035	DIFFERENTIAL PINON	4	d	Use only with pinion bearing spacer item 30.		
23		DIFFERENTIAL SHAFT/PIN	2	e	Early-style pinion bearing spacer—no longer available, replaced by item 27. If ordering item 27, it will also be necessary to order items 28 and 29 as needed to achieve proper spacing and bearing pre-load; refer to axle service manual for more information.		
	50220055	Note a					
	106036	Note b					
24	106037	BOLT	15				
25	106038	DISC	8				
26		DIFFERENTIAL	1				
		(includes items 16-25)					
	50220051	Note a					
	106039	Note b					



*

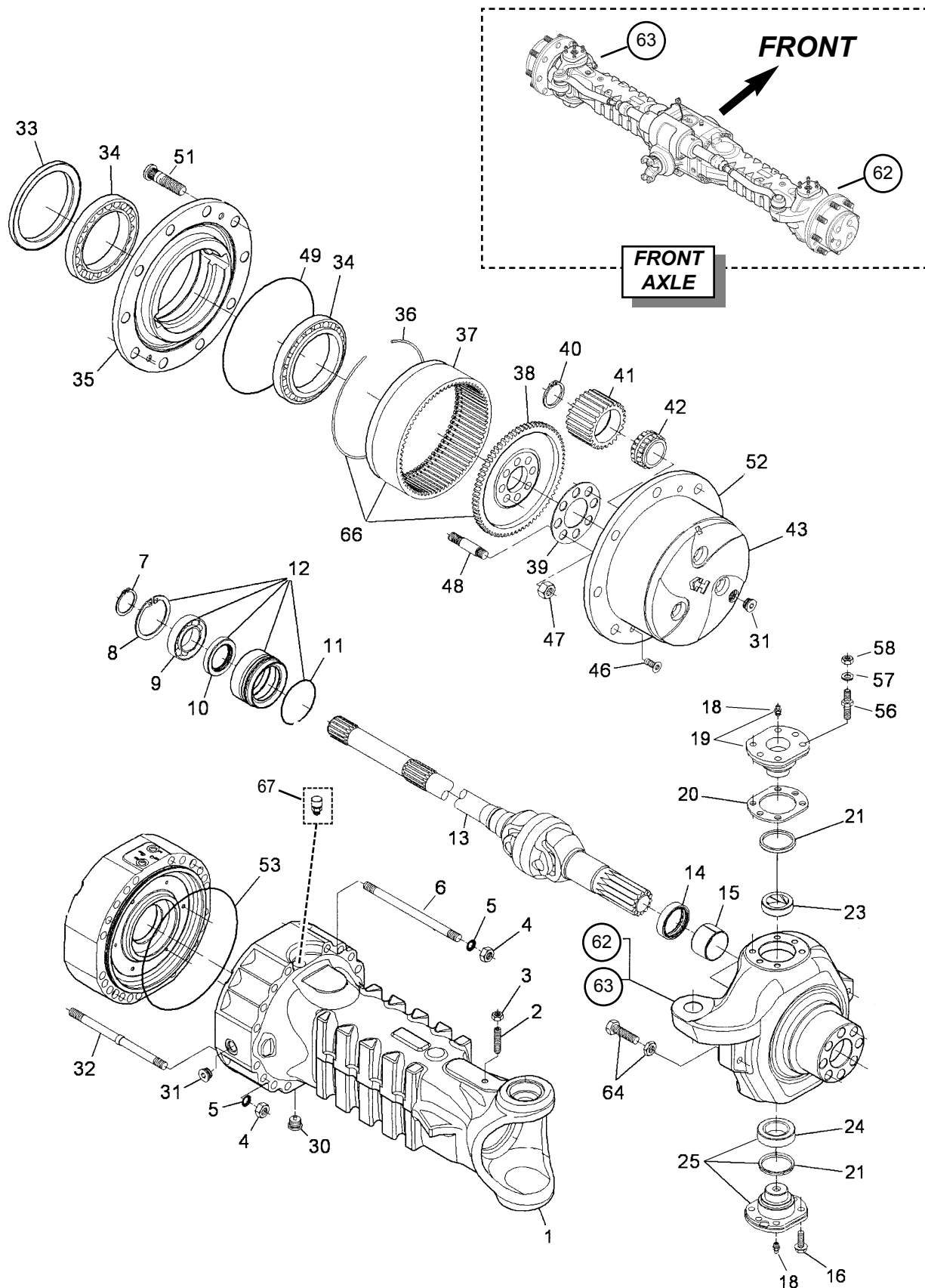


IMPORTANT: Before ordering replacement spacers or shims (items 27-31) be sure to measure the length of the pinion bearing spacer; refer to the measurements shown in Figure 1 on the facing page. The shims and spacers for the pinion bearing spacers are not interchangeable.

Axle

Front Axle - Hub Reduction

DL Series Dynalift

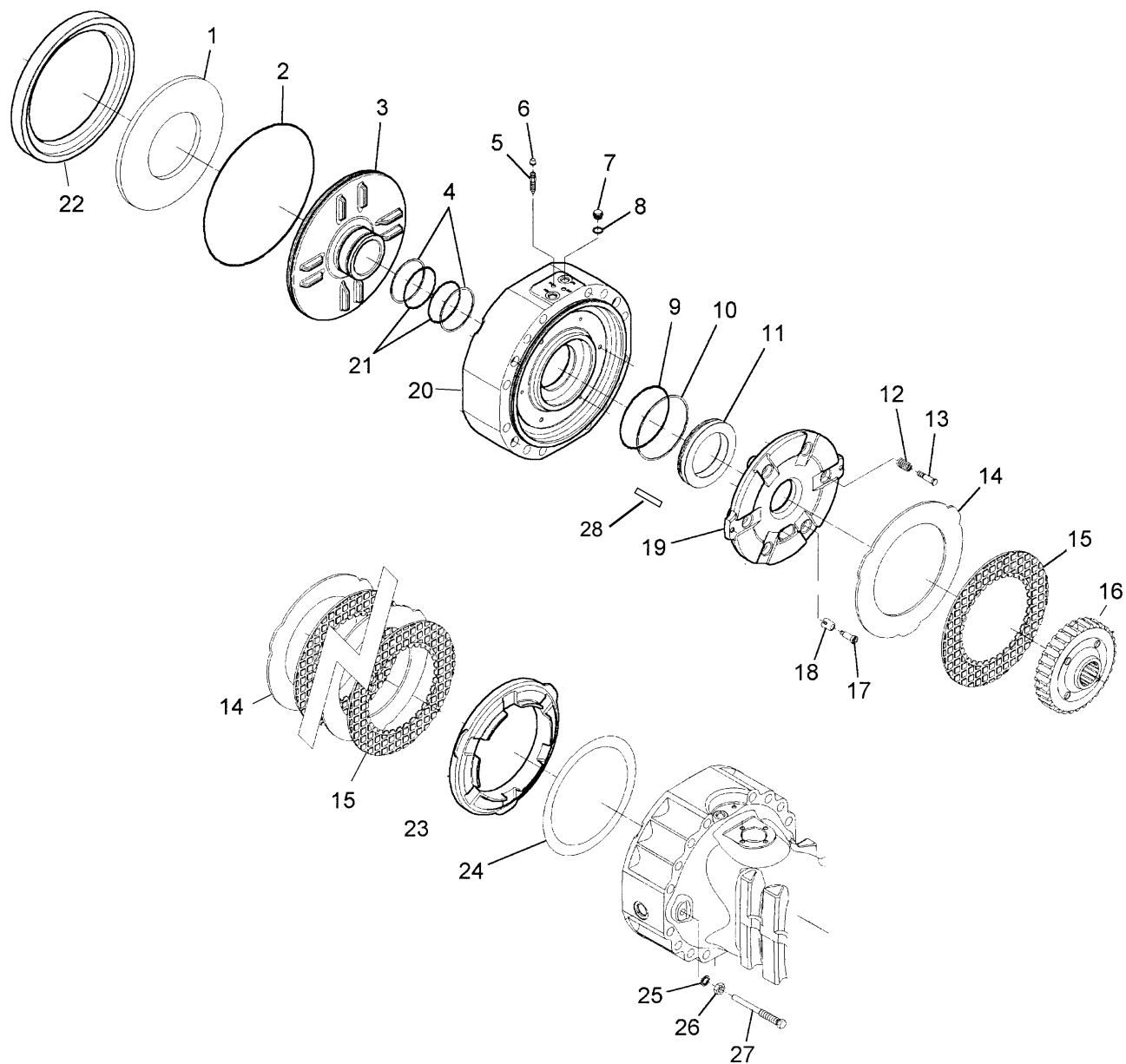


Front Axle - Hub Reduction

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01		AXLE CASE	2	34	106045	TAPER ROLLER BEARING	4
	50220289	<i>Note a</i>		35	106046	WHEEL HUB	2
	106040	<i>Note b</i>		36	102608	SNAP RING	2
02	102581	BOLT	2	37	106047	RING GEAR	2
03	L500483	NUT	2	38	106048	RING GEAR SUPPORT	2
04	102615	NUT		39	106049	LOCKING PLATE	2
		<i>Note a</i>	8	40	106050	SEAL	6
		<i>Note b</i>	32	41	106051	PLANET GEAR	6
05	L500487	WASHER		42	106052	BEARING	6
		<i>Note a</i>	8	43	106053	PLANET GEAR CARRIER	2
		<i>Note b</i>	32	46	104504	COUNTER-SUNK BOLT	4
06		BOLT/STUD		47	106054	NUT	16
	106118	<i>Note a (Bolt—not shown)</i>	24	48	106055	STUD	16
	106041	<i>Note b (Stud—shown)</i>	8	49	102603	O-RING	2
07	L98372	SNAP RING	2	51	102601	WHEEL STUD	20
08	L98373	SNAP RING	2	52	106056	PLANET GEAR CARRIER	2
09	L98371	BALL BEARING	2			(includes items 36-38 & 40-43)	
10	L500489	SEAL	2	53	106006	O-RING	2
11	L500490	O-RING	2	56	50220056	STUD	8
12	L500488	REDUCTION BUSHING	2	57	102583	WASHER	8
13		DOUBLE UNIVERSAL JOINT	2	58	102587	NUT	8
	50220286	<i>Note a</i>		62 ^c	106058	STEERING CASE	1
	106042	<i>Note b</i>				(includes item 15)	
14	102595	SEAL	2	63 ^c	106059	STEERING CASE	1
15	102588	THRUST BUSHING	1			(includes item 15)	
18	L98355	GREASE FITTING	4	64	104546	STEERING BOLT & NUT	4
19	102590	PIVOT PIN	2	66	106060	RING GEAR SUPPORT	2
20		SHIM	2			(includes items 36-38)	
	102610	SHIM 0.0065"		67 ^d	50220030	VENT	1
	102611	SHIM 0.0085"					
	102612	SHIM 0.0210"					
21	106043	DUST EXCLUDER	2	a	Axle S/N R-ITA-754751 and up		
23	102589	BUSHING	2	b	Axle S/N R-ITA-754750 and before		
24	102593	BEARING	2	c	Before ordering, refer to inset illustration "Front Axle" on facing page to determine the correct steering case (e.g., left side or right side).		
25	102591	PIVOT PIN	2	d	Used in only one axle case (as shown), and only on axles in the axle S/N range R-ITA-754751 and up; the other side (axle case) uses a plug (PN L98419) in place of this vent.		
30	104569	MAGNETIC PLUG	2				
31	104568	PLUG	3				
32		STUD					
	106120	<i>Note a (not shown)</i>	8				
	106044	<i>Note b (shown)</i>	24				
33	104517	SEAL	2				



NOTE: Quantities are for one axle.



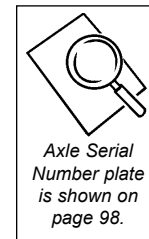
Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	106061	SPRING.....	2	19		INTERMEDIATE BRAKE DISC....	2
02	106006	O-RING	2		50220288	<i>Note a</i>	
03	106062	PISTON	2		106067	<i>Note b</i>	
04	102622	BACK-UP RING.....	4	20		INTERMEDIATE COVER	2
05	104655	BLEED SCREW	4		50220285	<i>Note a</i>	
06	L500496	PLUG.....	4		106068	<i>Note b</i>	
07	50220068	PLUG ASSEMBLY (includes #8)...	2	21	102621	O-RING	4
08	NSS	SEAL WASHER (included w/ #7) ..	2	22	106069	SPACER	2
09	104657	O-RING	2	23	106070	SPACER	2
10	104658	BACK-UP RING.....	2	24		SHIM	2
11	106063	PISTON	2		106071	SHIM	
12	102627	SPRING.....	6		106072	SHIM	
13	102628	ADJUSTING BOLT	6		106073	SHIM	
14	106064	INTERMEDIATE BRAKE DISC....	6	25	102634	LOCK WASHER	4
15	106065	BRAKE DISC.....	6	26	102633	NUT	4
16	106066	REDUCTION BUSHING	2	27	103391	BOLT	4
17	102631	ADJUSTING BOLT	6	28 ^a	50220287	DOWEL	4
18	L500529	SPRING.....	6				

a Axle S/N R-ITA-754751 and up

b Axle S/N R-ITA-754750 and before



NOTE: Quantities are for one axle.



Axle

Rear Axle - Differential

DL Series Dynalift

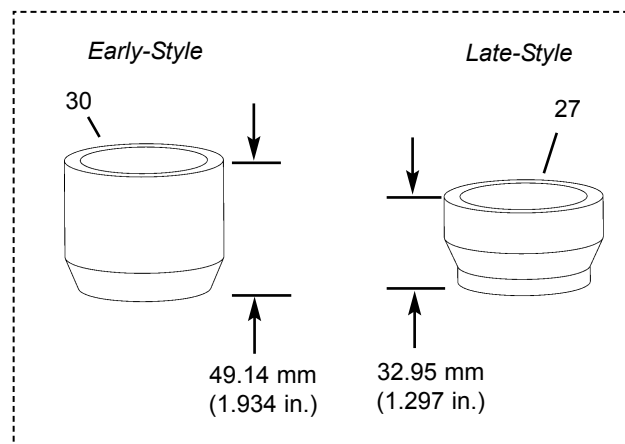
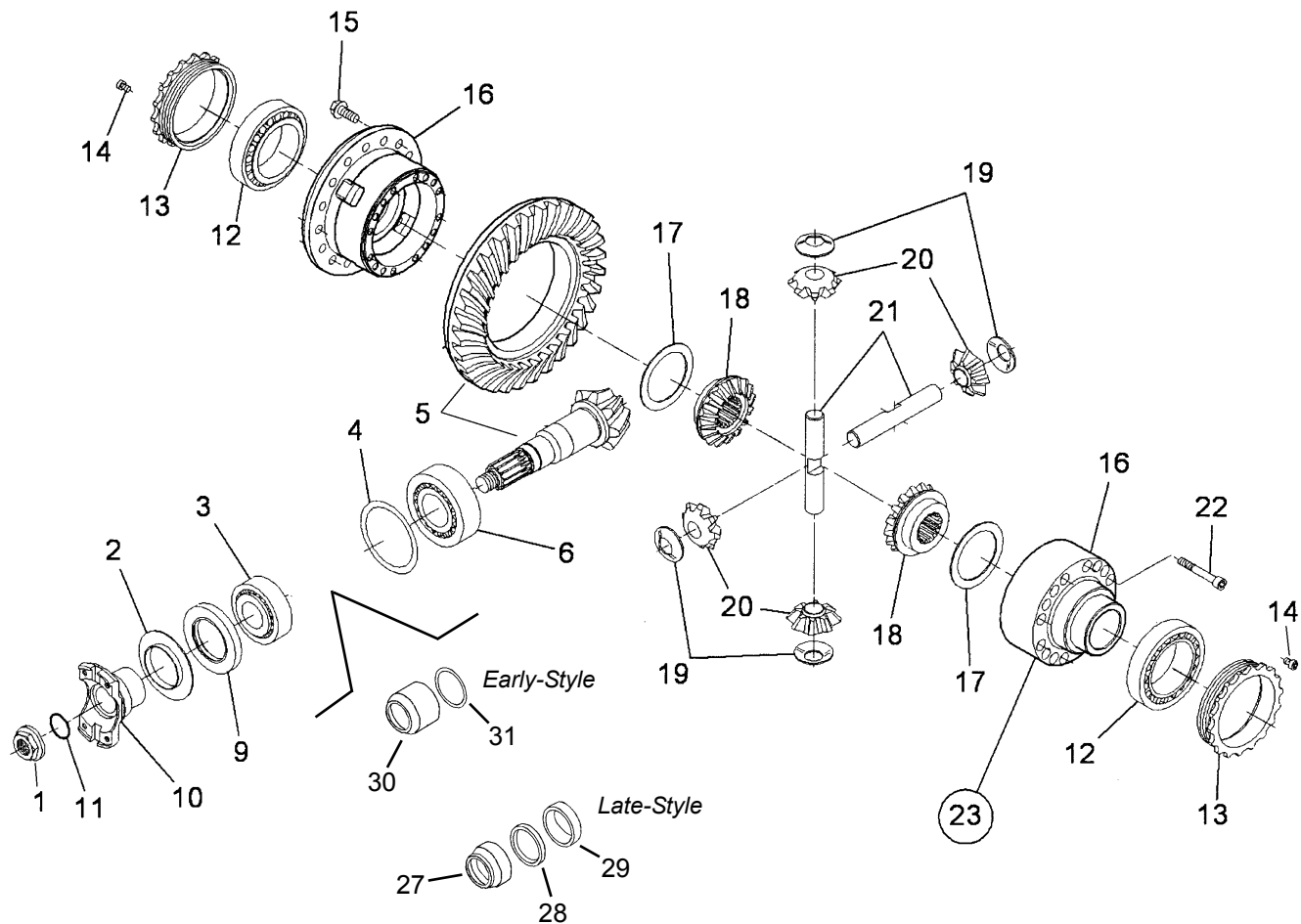


Figure 2.

Rear Axle - Differential

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	106007	NUT	1	27 ^a	50220045	PINION BEARING SPACER	1
02	106008	COVER PLATE	1			(32.95 mm—length)	
03	106009	TAPER ROLLER BEARING	1	28 ^{ac}		SPACER	AR
04		SHIM	AR		50220041	SPACER, 60 x 50 x 5.0 mm	
	106010	SHIM			50220042	SPACER, 60 x 50 x 5.025 mm	
	106011	SHIM			50220043	SPACER, 60 x 50 x 5.05 mm	
	106012	SHIM			50220044	SPACER, 60 x 50 x 5.075 mm	
	106013	SHIM		29 ^{ac}		SPACER	AR
05	106082	BEVEL GEAR SET	1		50220031	SPACER, 60 x 50 x 11.8 mm	
06	106015	TAPER ROLLER BEARING	1		50220032	SPACER, 60 x 50 x 11.9 mm	
09	106102	SEAL	1		50220033	SPACER, 60 x 50 x 12.0 mm	
10	106023	FLANGE	1		50220034	SPACER, 60 x 50 x 12.1 mm	
11	106024	O-RING	1		50220035	SPACER, 60 x 50 x 12.2 mm	
12	106025	TAPER ROLLER BEARING	2		50220036	SPACER, 60 x 50 x 12.3 mm	
13	106026	RING NUT	2		50220037	SPACER, 60 x 50 x 12.4 mm	
14	L500466	BOLT	2		50220038	SPACER, 60 x 50 x 12.5 mm	
15	L500467	BOLT	16		50220039	SPACER, 60 x 50 x 12.6 mm	
16		DIFFERENTIAL CARRIER	1		50220040	SPACER, 60 x 50 x 12.7 mm	
	50220048	Note a		30 ^{be}	NA	PINION BEARING SPACER	0
	106083	Note b				(49.14 mm—length)	
17		FRICTION WASHER	2				
	50220052	Note a		31 ^{bd}		SHIM	AR
	106084	Note b			106016	SHIM, 60 x 50 x 0.15 mm	
18		DIFFERENTIAL SIDE GEAR	2		106017	SHIM, 60 x 50 x 0.20 mm	
	50220053	Note a			106018	SHIM, 60 x 50 x 0.30 mm	
	106085	Note b			106019	SHIM, 60 x 50 x 0.40 mm	
19		FRICTION WASHER	4		106020	SHIM, 60 x 50 x 0.50 mm	
	50220054	Note a					
	106034	Note b					
20	106035	DIFFERENTIAL PINON	4	a	Axle S/N P-ITA-704046 and up *		
21		PIN	2	b	Axle S/N P-ITA-704045 and before *		
	50220055	Note a					
	106036	Note b					
22		BOLT	15	c	Use only with pinion bearing spacer item 27.		
	50220029	Note a					
	106086	Note b		d	Use only with pinion bearing spacer item 30.		
23		DIFFERENTIAL	1				
		(includes items 16-22)		e	Early-style pinion bearing spacer—no longer available, replaced by item 27. If ordering item 27, it will also be necessary to order items 28 and 29 as needed to achieve proper spacing and bearing pre-load; refer to axle service manual for more information.		
	50220050	Note a					
	106087	Note b					



*

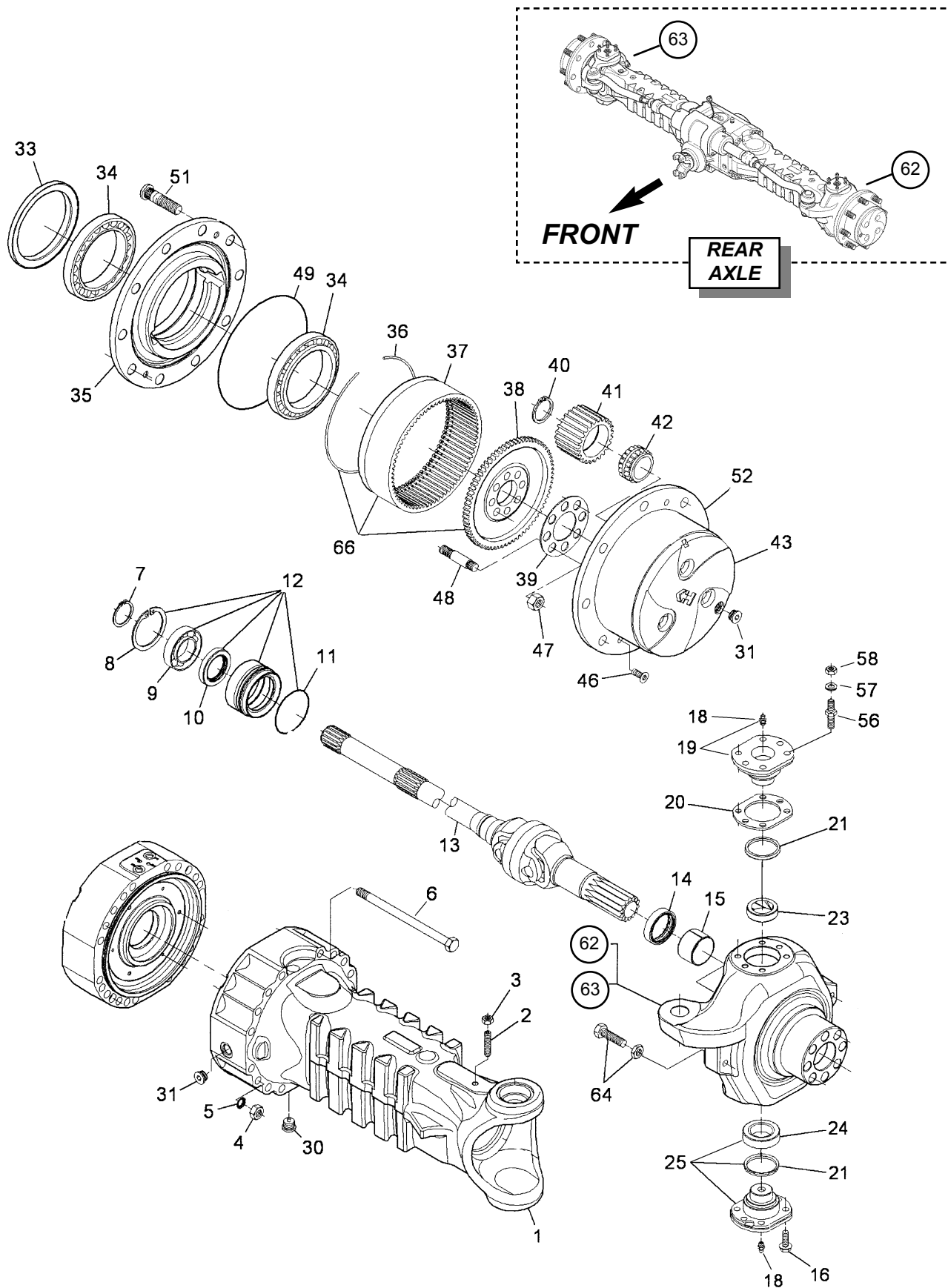


IMPORTANT: Before ordering replacement spacers or shims (items 27-31) be sure to measure the length of the pinion bearing spacer; refer to the measurements shown in Figure 2 on the facing page. The shims and spacers for the pinion bearing spacers are not interchangeable.

Axle

Rear Axle - Hub Reduction

DL Series Dynalift

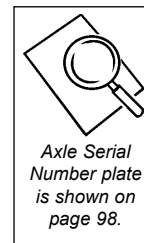


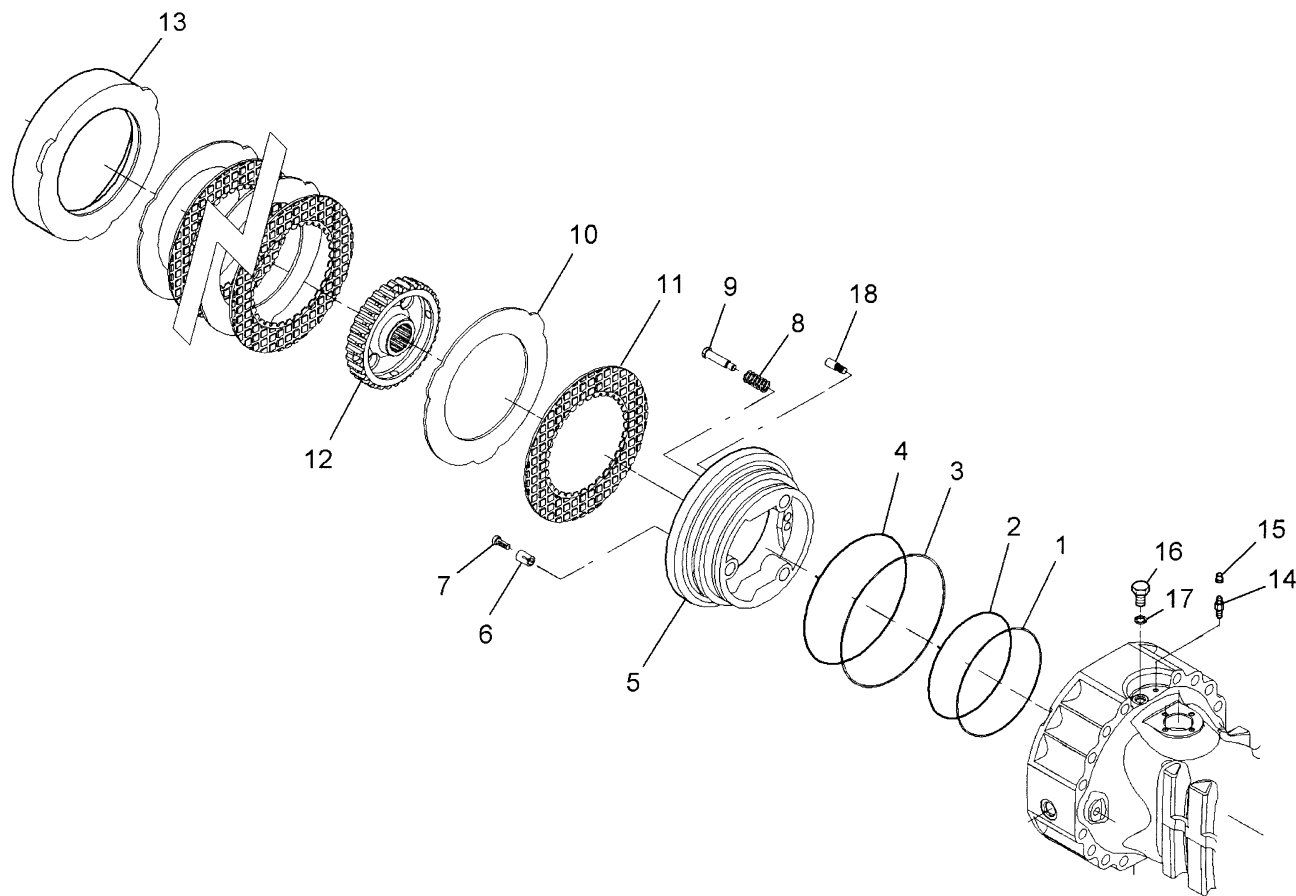
Rear Axle - Hub Reduction

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	106088	AXLE CASE	2	40	106050	SEAL	6
02	102581	BOLT	2	41	106051	PLANET GEAR	6
03	L500483	NUT	2	42	106052	BEARING	6
06	106089	BOLT	32	43	106053	PLANET GEAR CARRIER	2
07	L98372	SNAP RING	2	46	104504	COUNTER-SUNK BOLT	4
08	L98373	SNAP RING	2	47	106054	NUT	16
09	L98371	BALL BEARING	2	48	106055	STUD	16
10	L500489	SEAL	2	49	102603	O-RING	2
11	L500490	O-RING	2	51	102601	WHEEL STUD	20
12	L500488	REDUCTION BUSHING	2	52	106056	PLANET GEAR CARRIER	2
13	106090	DOUBLE UNIVERSAL JOINT	2			(includes items 36-38 & 40-43)	
14	102595	SEAL	2	56	50220056 STUD	
15	102588	THRUST BUSHING	1	57	102583	WASHER	8
18	L98355	GREASE FITTING	4	58	102587	NUT	8
19	102590	PIVOT PIN	2	62 ^c	106058	STEERING CASE	1
20		SHIM	2			(includes item 15)	
	102610	SHIM 0.0065"		63 ^c	106059	STEERING CASE	1
	102611	SHIM 0.0085"				(includes item 15)	
	102612	SHIM 0.0210"		64	104546	STEERING BOLT & NUT	4
21	106043	DUST EXCLUDER	2	66		RING GEAR SUPPORT	2
23	102589	BUSHING	2			(includes items 36-38)	
24	102593	BEARING	2		50220047	Note a	
25	102591	PIVOT PIN	2		106060	Note b	
30	104569	MAGNETIC PLUG	2				
31	104568	PLUG	3				
33	104517	SEAL	2	a		Axle S/N P-ITA-704046 and up	
34	106045	TAPER ROLLER BEARING	4	b		Axle S/N P-ITA-704045 and before	
35	106046	WHEEL HUB	2				
36	102608	SNAP RING	2	c		Before ordering, refer to inset illustration "Rear Axle" on facing page to determine the correct steering case (e.g., left-side or right-side).	
37		RING GEAR	2				
	50220057	Note a					
	106047	Note b					
38	106048	RING GEAR SUPPORT	2				
39	106049	LOCKING PLATE	2				



NOTE: Quantities are for one axle.





Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	106091	BACK-UP RING.....	2	10	106064	INTERMEDIATE BRAKE DISC....	6
02	106092	O-RING	2	11	106065	BRAKE DISC.....	6
03	106093	BACK-UP RING.....	2	12	106066	REDUCTION BUSHING	2
04	106094	O-RING	2	13	106096	SPACER	2
05	106095	PISTON	2	14	104655	BLEED SCREW	2
06	102632	SPRING.....	6	15	L500496	PLUG.....	2
07	102897	ADJUSTING BOLT	6	16	50220068	PLUG ASSEMBLY (includes #17) ..	2
08	102627	SPRING.....	6	17	NSS	SEAL WASHER (included w/ #16) ..	2
09	102628	ADJUSTING BOLT	6	18	106097	PILOT BOLT	2

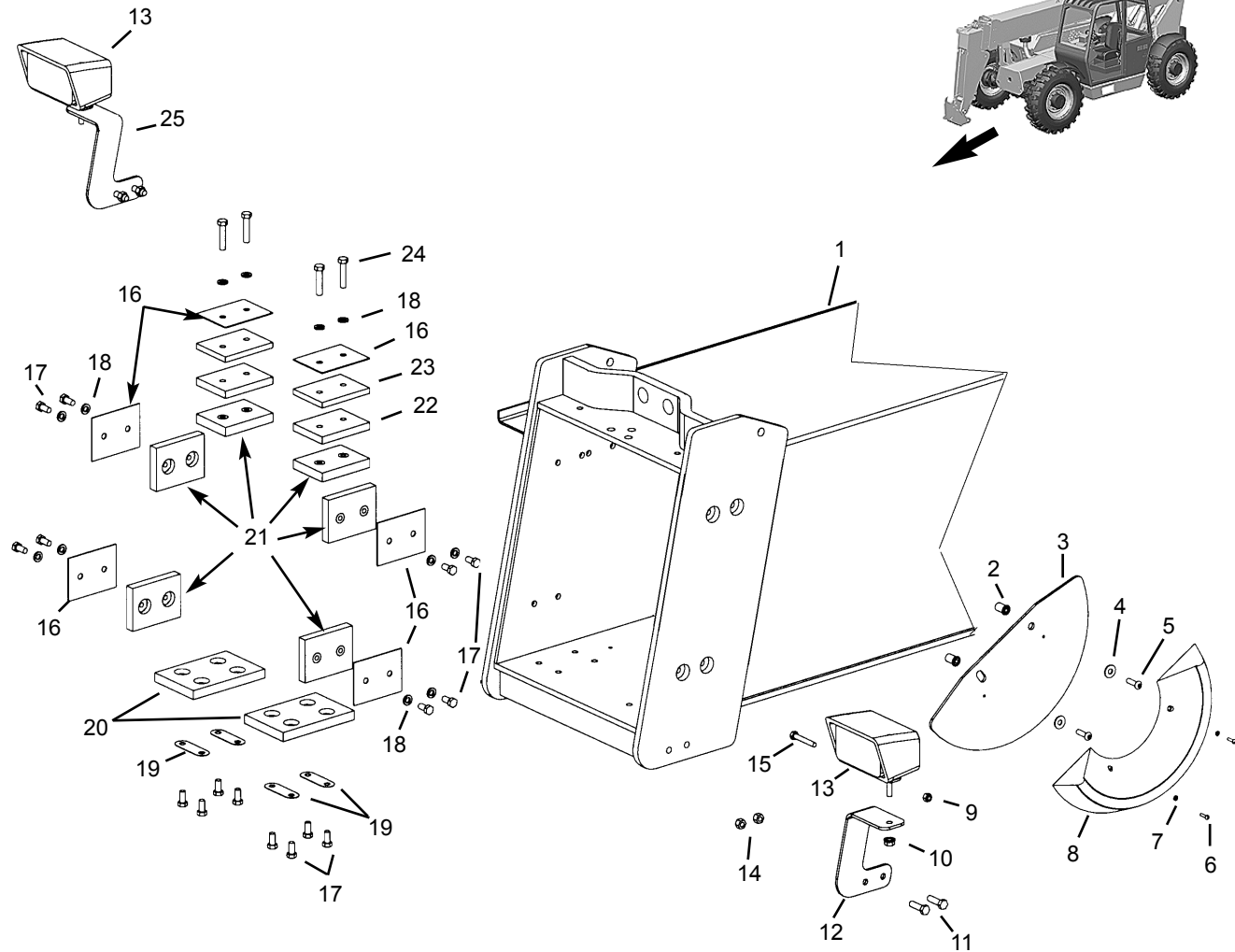


NOTE: Quantities are for one axle.

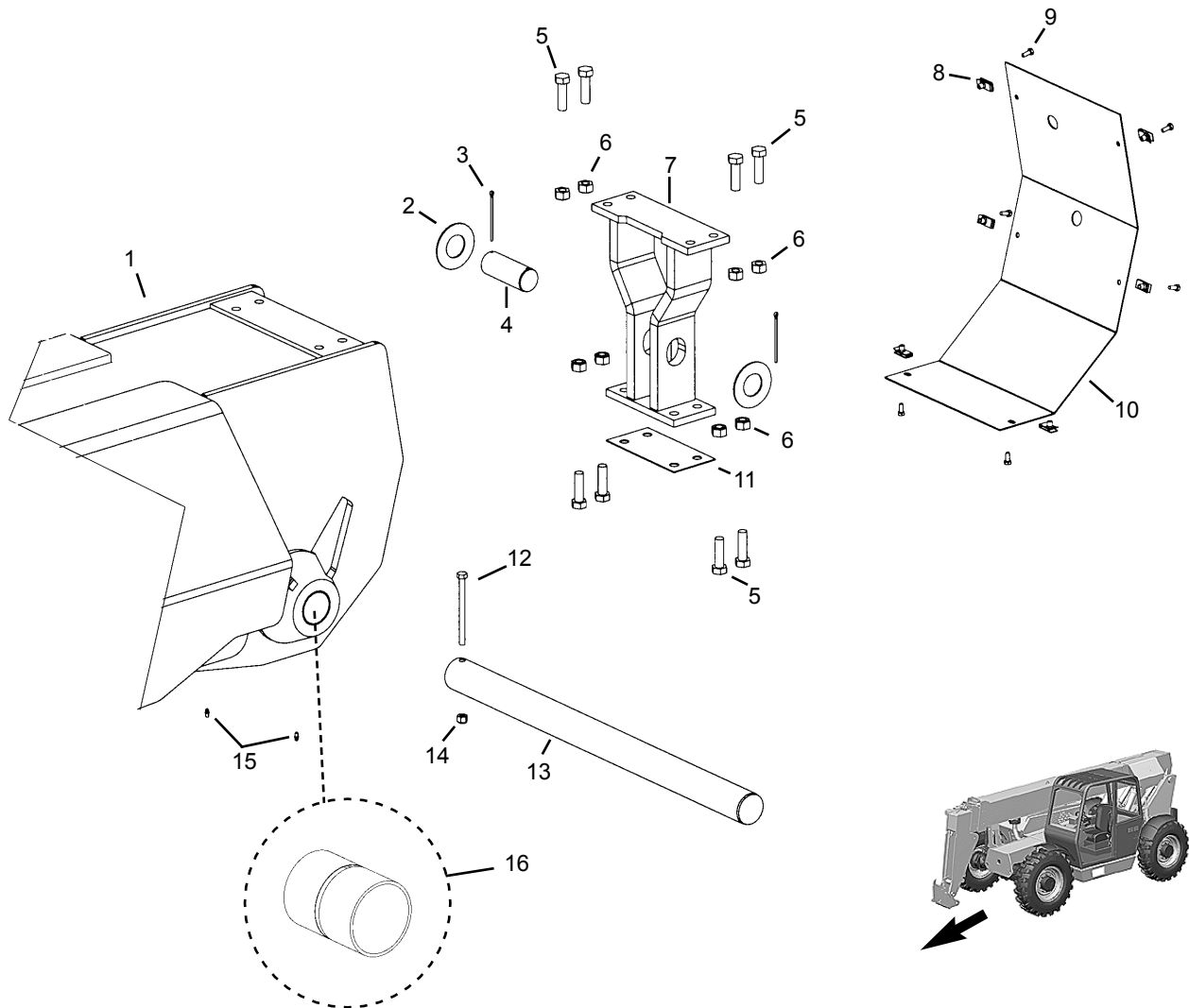
Boom - Three-Section High

Outer Boom - Front Section

DL Series Dynalift



Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01		OUTER BOOM	1	13	L70040	WORK LIGHT	2
	L70421	40' High Boom			L70462	LIGHT HARNESS (not shown)	1
	L69255	44' High Boom		14	L520005	3/8"-16 NYLON INSERT NUT	4
02	L70242	5/16"-18 NUT INSERT	2	15	650568	5/16"-18X2" BOLT	2
03	L65640	BOOM ANGLE IND. PLATE	1	16	L62733	0.06"x3"x4" SHIM	6
04	654004	5/16" FLAT WASHER	2	17	L50251	3/8"-16x3/4" BOLT	16
05	L52048	5/16"-18x1" BUTTON HD BOLT . . .	2	18	654026	3/8" LOCK WASHER	12
06	L50491	#8x5/8" RND HD MACH SCREW . . .	2	19	L62715	FLAT-BOLT LOCK	4
07	650549	#10 LOCK WASHER	2	20	L71020	SLIDE PAD 4" x 6"	2
08	L65638	INCLINOMETER - ANGLE IND. . . .	1	21	L61709	SLIDE PAD	6
09	L520004	5/16"-18 NYLON INSERT NUT	2	22	L64143	0.50"x3"x4" SHIM	2
10	090666	3/8"-16 FLARE NUT	2	23	L64132	3/8" PAD SPACER	2
11	651625	3/8"-16x1-1/4" BOLT	4	24	650579	3/8"-16x1-3/4" BOLT	4
12	L70639	BOOM LIGHT BRACKET (left)	1	25	L70635	BOOM LIGHT BRACKET (right) . . .	1

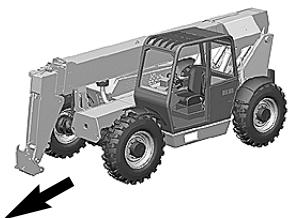
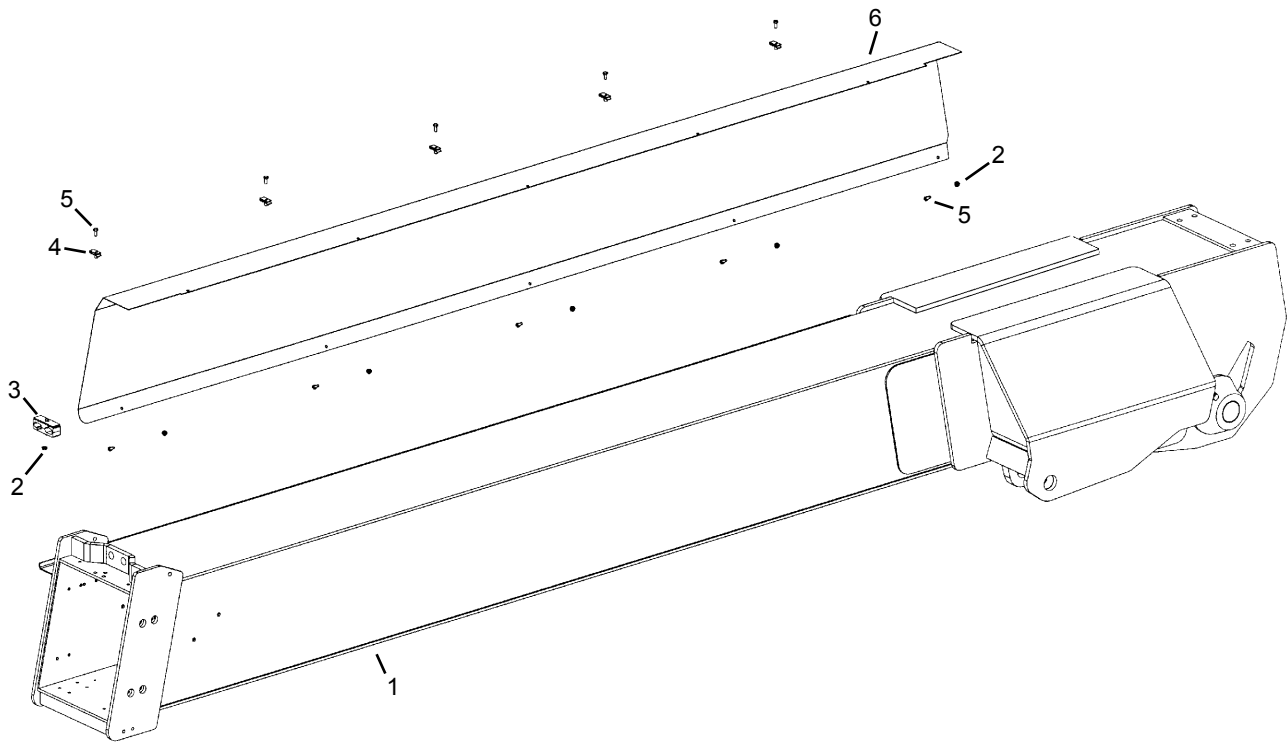


Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01		OUTER BOOM	1	08	L530004	5/16" CLIP RETAINING NUT.	6
	L70421	40' High Boom		09	650486	5/16"-18x3/4" BOLT.	6
	L69255	44' High Boom		10	L69534	REAR BOOM COVER.	1
02	L400207	THRUST WASHER	2	11	L70420	Trunnion SHIM.	1
03	L50608	3/16"x4" COTTER PIN.	2	12	L50463	1/2"-13x6" BOLT	1
04	L69994	EXTEND CYLINDER PIN	1	13	L69474	BOOM PIVOT PIN.	1
05	L50956	3/4"-10x2-1/2" BOLT	8	14	L520019	1/2"-13 NYLON INSERT NUT.	1
06	079209	3/4"-10 NYLON INSERT NUT.	8	15	L10465	1/4"-28 ZERK, STRAIGHT	2
07	L69480	EXTEND CYLINDER MOUNT	1	16	L69492	BUSHING, PIVOT PIN.	2

Boom - Three-Section High

Outer Boom - Side Cover

DL Series Dynalift



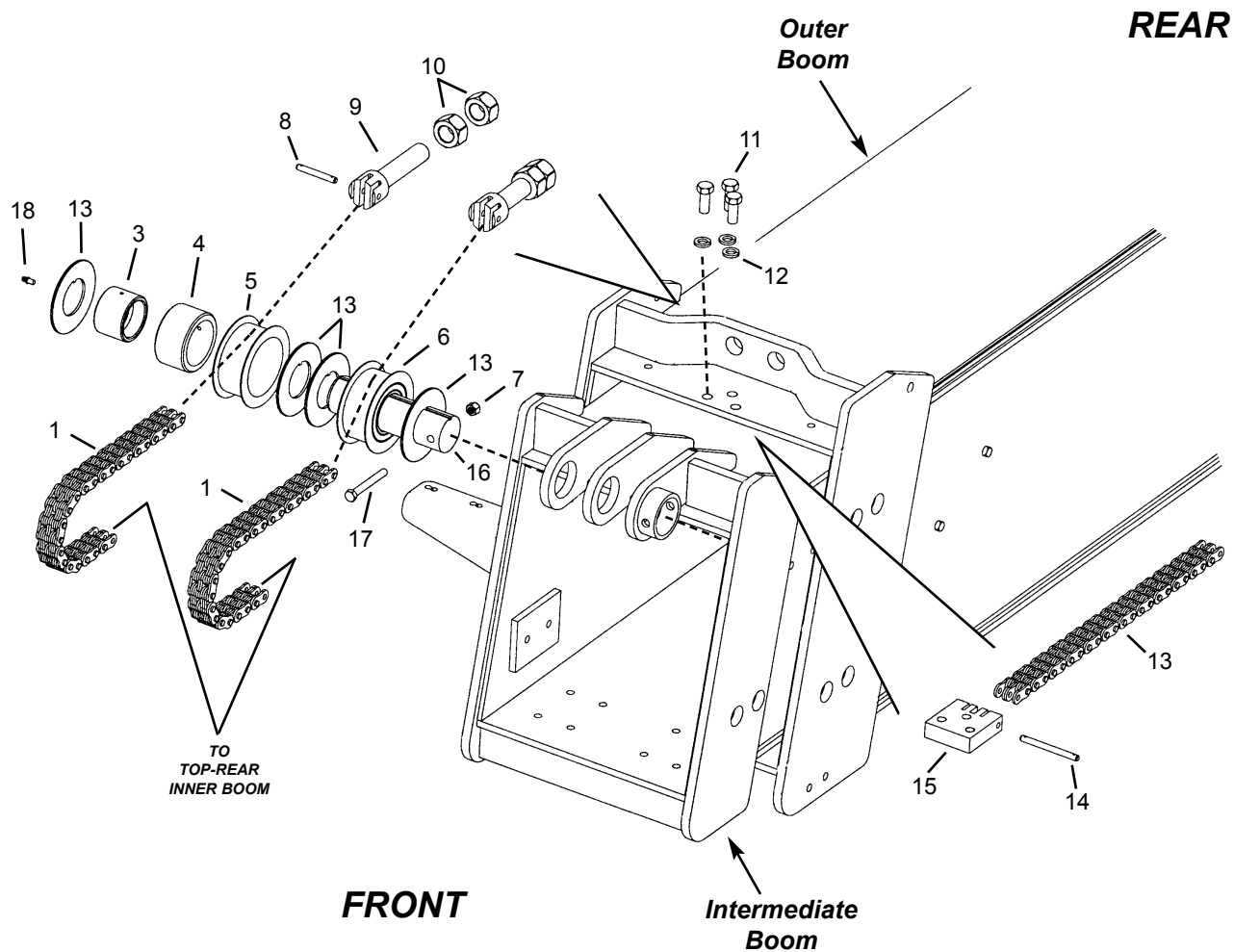
DL7/ DL9/ DL11/ DL12**Boom - Three-Section High**
Outer Boom - Side Cover

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01		OUTER BOOM	1	04	L530004	5/16" CLIP RETAINING NUT.	5
	L70421	40' High Boom		05	650486	5/16"-18x3/4" BOLT	10
	L69255	44' High Boom		06		OUTER SIDE COVER.	1
02	L50056	5/16" FLARE NUT	6		L69530	40' High Boom	
03	L79167	HOSE CLAMP ASSEMBLY	1		L69532	44' High Boom	

Boom - Three-Section High

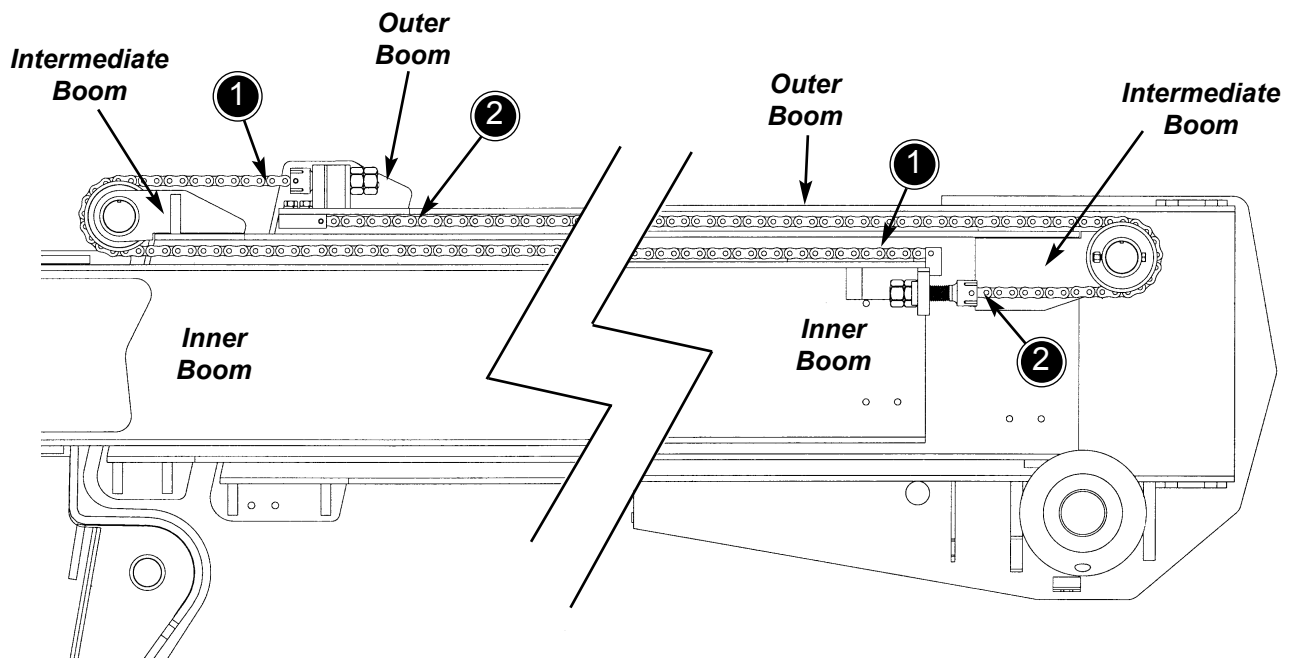
Front - Boom Chain-Drive Assembly

DL Series Dynalift



Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01 ^a		LEAF CHAIN	2	10	L50092	1" NUT	4
	L69249	40' BOOM (257 Pitches - 192-3/4")		11	L50380	1/2"x1-1/4" BOLT GR8.	3
	L69256	44' BOOM (277 Pitches - 207-3/4")		12	654030	1/2" LOCK WASHER.	3
02 ^a		LEAF CHAIN	1	13	L71205	CHAIN SHEAVE WASHER.	4
	L69249	40' BOOM (257 Pitches - 192-3/4")		14	L64468	PIN, LEAF CHAIN	1
	L69256	44' BOOM (277 Pitches - 207-3/4")			L560003	3/32"x1-1/4" COTTER PIN	2
03	L49619	INNER RING	2	15	L64384	CLEVIS, REMOVABLE	1
04	L49618	ROLLER BEARING	2	16	L71204	PIN, CHAIN SHEAVE	1
05	L64630	CHAIN SHEAVE	2	17	650818	3/8"x3" BOLT	1
06	NSS	CHAIN SHEAVE ASSEMBLY. . . . NA (order one of each: items 3-5)		18	L10465	GREASE ZERK.	1
07	L520005	3/8" NYLON INSERT NUT	1	^a The three-section boom uses a total of three chains, all of which are identified on this page and the next page. When ordering boom chains, be careful to not duplicate these quantities.			
08	L64466	PIN, ADJUSTABLE CLEVIS	2				
	L560003	3/32"x1-1/4" COTTER PIN	4				
09	L64359	CLEVIS, ADJUSTABLE.	2				

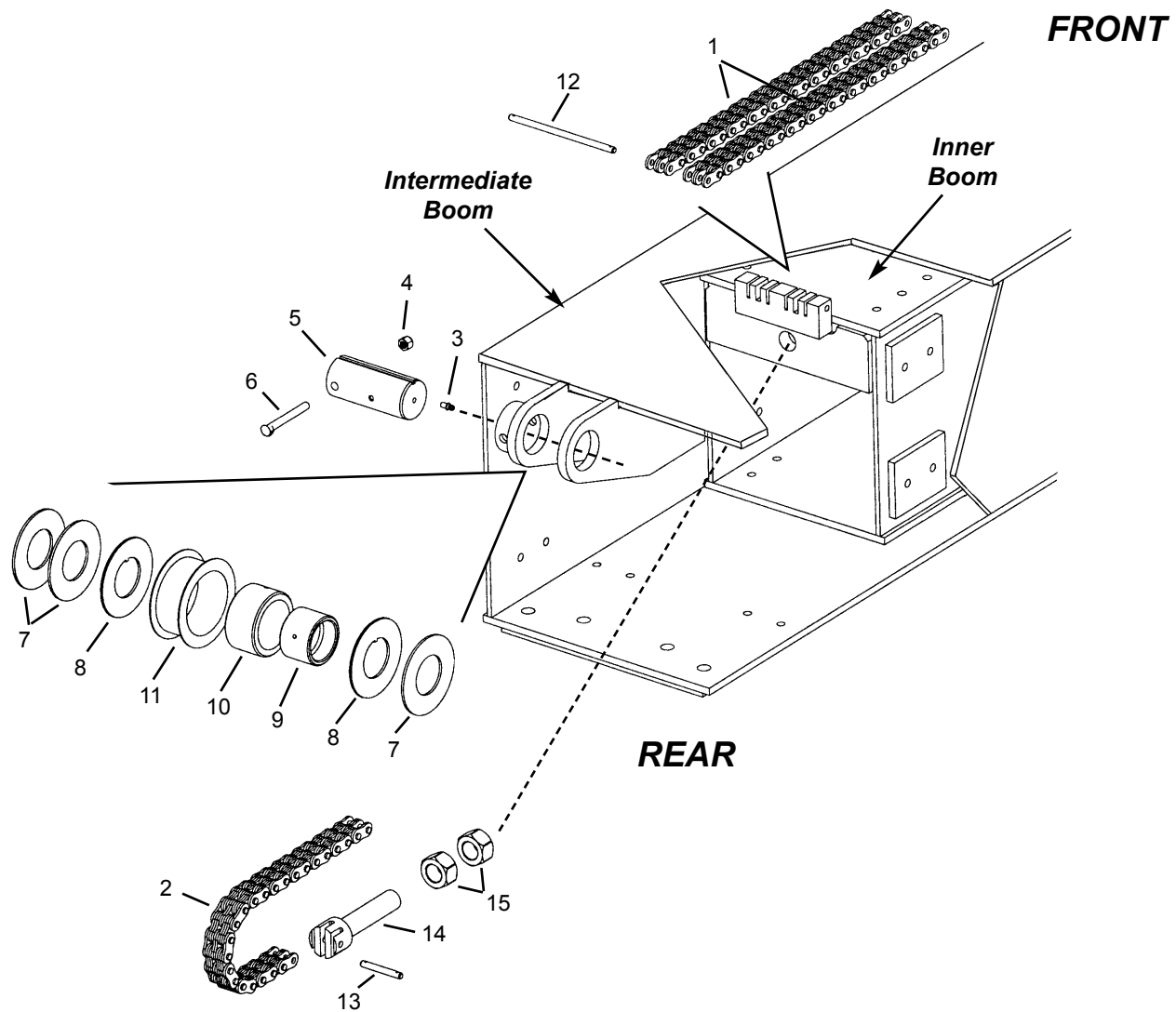
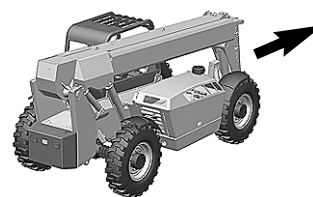
Three-Section Boom



Boom - Three-Section High

Rear - Boom Chain-Drive Assembly

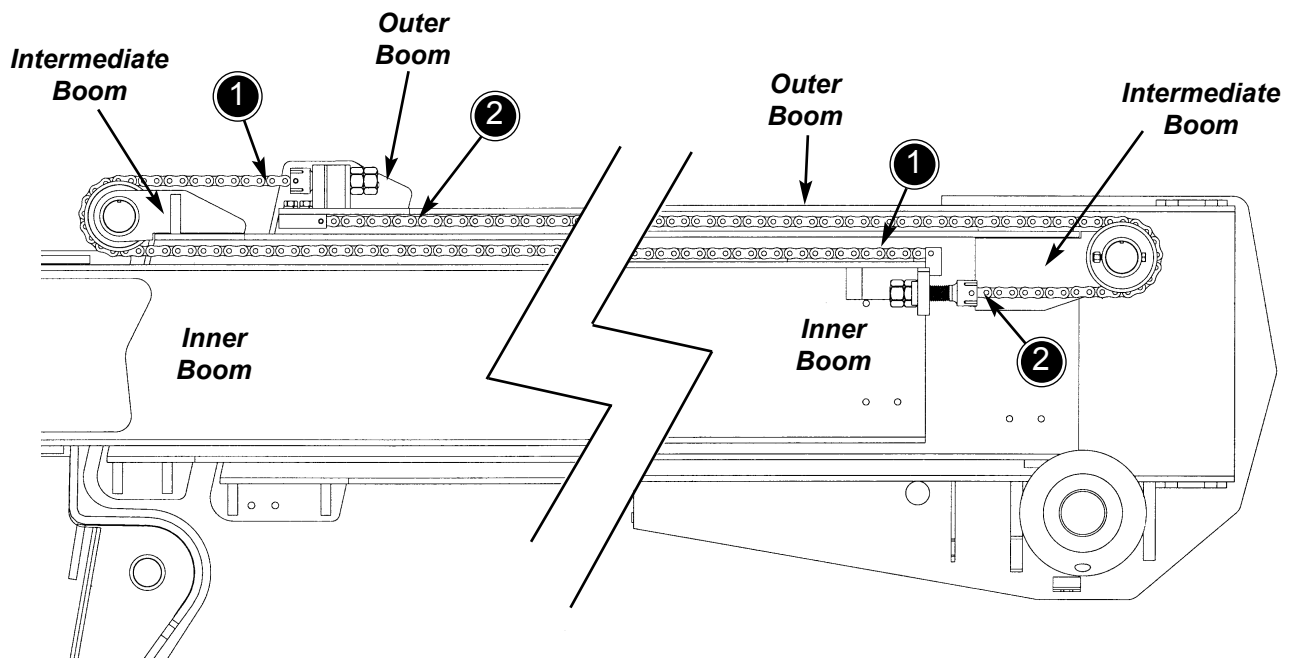
DL Series Dynalift



Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01 ^a		LEAF CHAIN	2	09	L49619	INNER RING	1
	L69249	40' BOOM (257 Pitches - 192-3/4")		10	L49618	ROLLER BEARING	1
	L69256	44' BOOM (277 Pitches - 207-3/4")		11	L64360	CHAIN SHEAVE	1
02 ^a		LEAF CHAIN	1	12	L64467	PIN, FIXED CLEVIS	1
	L69249	40' BOOM (257 Pitches - 192-3/4")			L560003	3/32"x1-1/4 COTTER PIN	2
	L69256	44' BOOM (277 Pitches - 207-3/4")		13	L64466	CLEVIS PIN	1
03	L10465	1/4"-28 ZERK, STR	1	14	L64359	ADJUSTABLE CLEVIS	1
04	L520005	3/8"-16 NYLON INSERT NUT	1	15	L50092	1"-8 NUT	2
05	L71206	PIN, SHEAVE	1				
06	650818	3/8"-16x3 BOLT	1				
07	L400207	THRUST WASHER	3				
08	L71205	CHAIN SHEAVE WASHER	2				

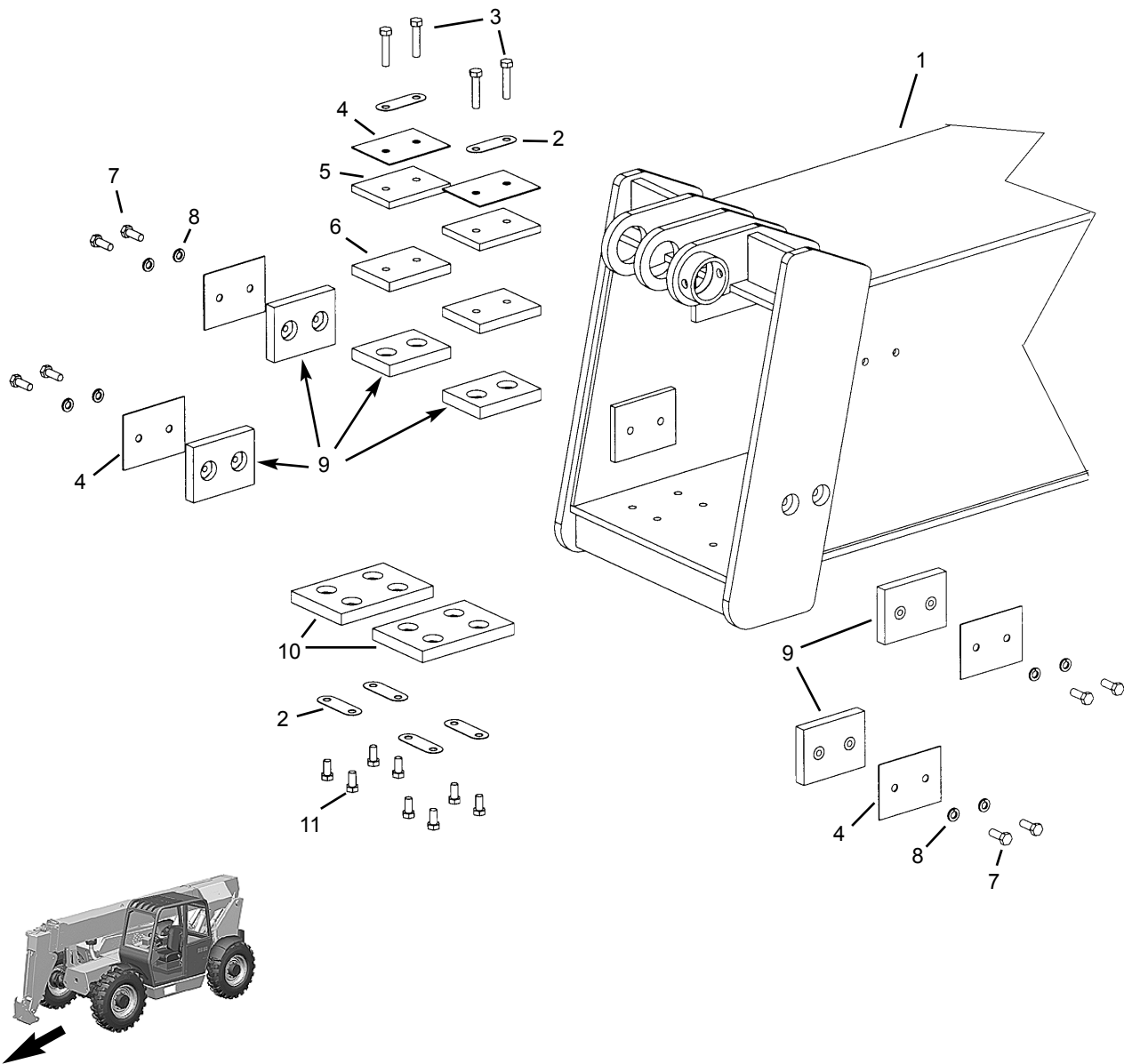
a The three-section boom uses a total of three chains, all of which are identified on this page and the previous page. When ordering boom chains, be careful to not duplicate these quantities.

Three-Section Boom

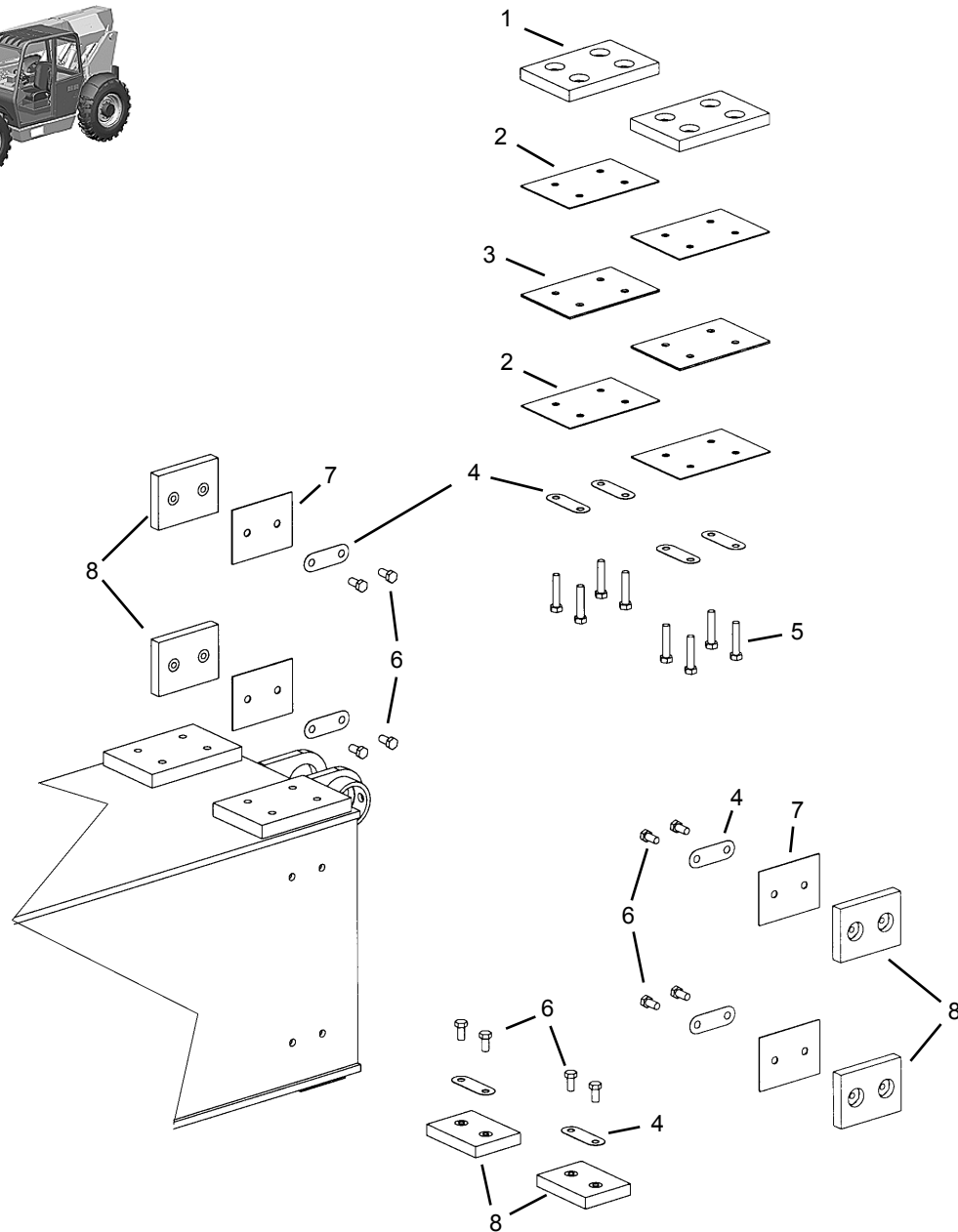
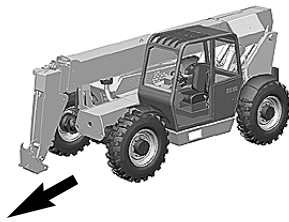


Boom - Three-Section High Intermediate Boom - Front Section

DL Series Dynalift



Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01		INTERMEDIATE BOOM	1	06	L64143	0.50"x3"x4" SHIM	2
	L71210	40' High Boom		07	650490	3/8"-16x1" BOLT	8
	L71220	44' High Boom		08	654026	3/8" LOCK WASHER.	8
02	L62715	FLAT-BOLT LOCK	6	09	L61709	SLIDE PAD	6
03	650579	3/8"-16x1-3/4" BOLT	4	10	L71020	SLIDE PAD 4" x 6"	2
04	L62733	0.06"x3"x4" SHIM	6	11	L50251	3/8"-16x3/4" BOLT	8
05	L64132	3/8" PAD SPACER.	2				

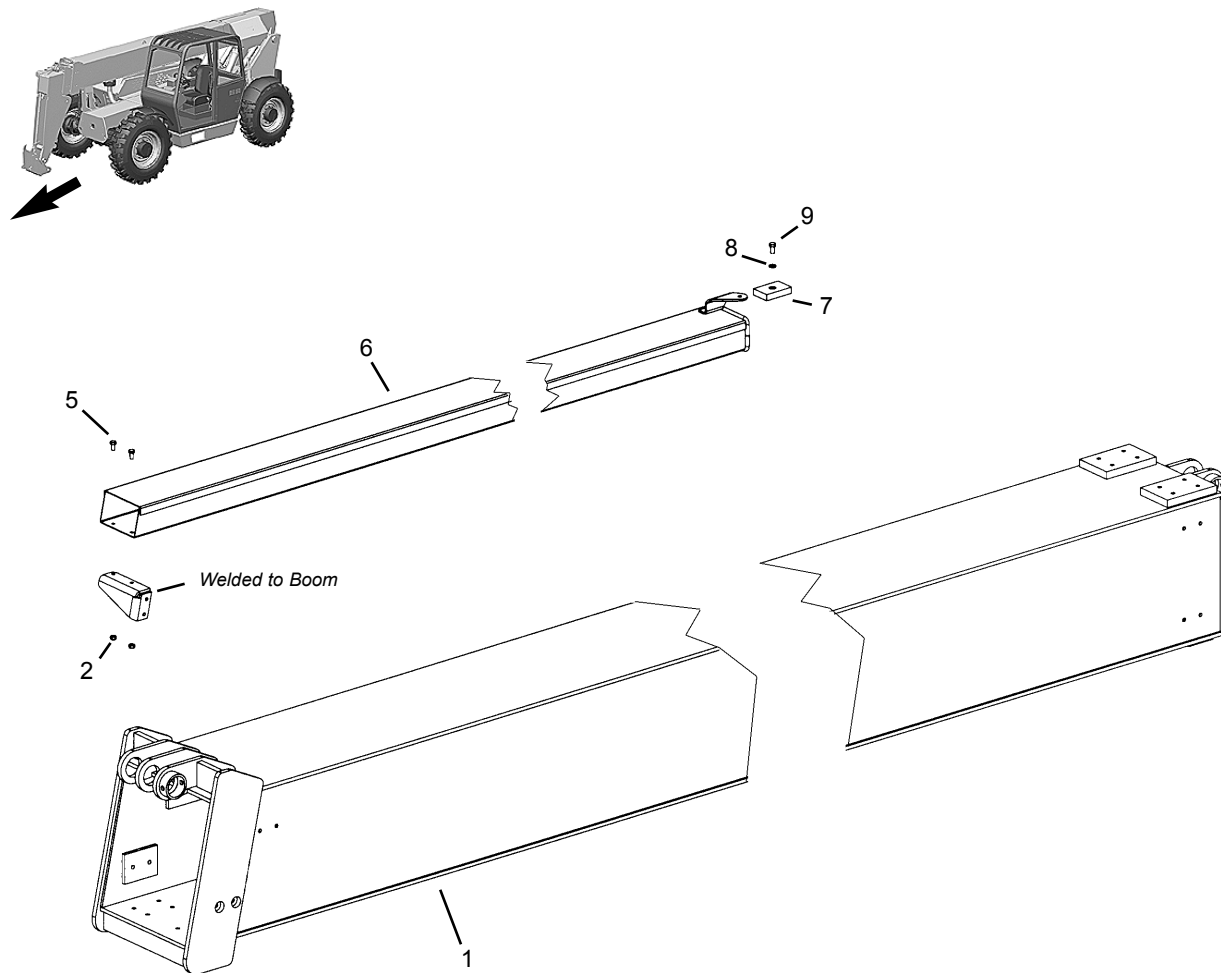


Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	L71020	SLIDE PAD 4" x 6"	2	05	650579	3/8"-16x1-3/4" BOLT	8
02	L62731	0.06"x3"x4" SHIM	4	06	L50251	3/8"-16x3/4" BOLT	12
03	L62732	0.105"x4"x6" SHIM	2	07	L62733	0.06"x3"x4" SHIM	4
04	L62715	FLAT-BOLT LOCK	10	08	L61709	SLIDE PAD	6

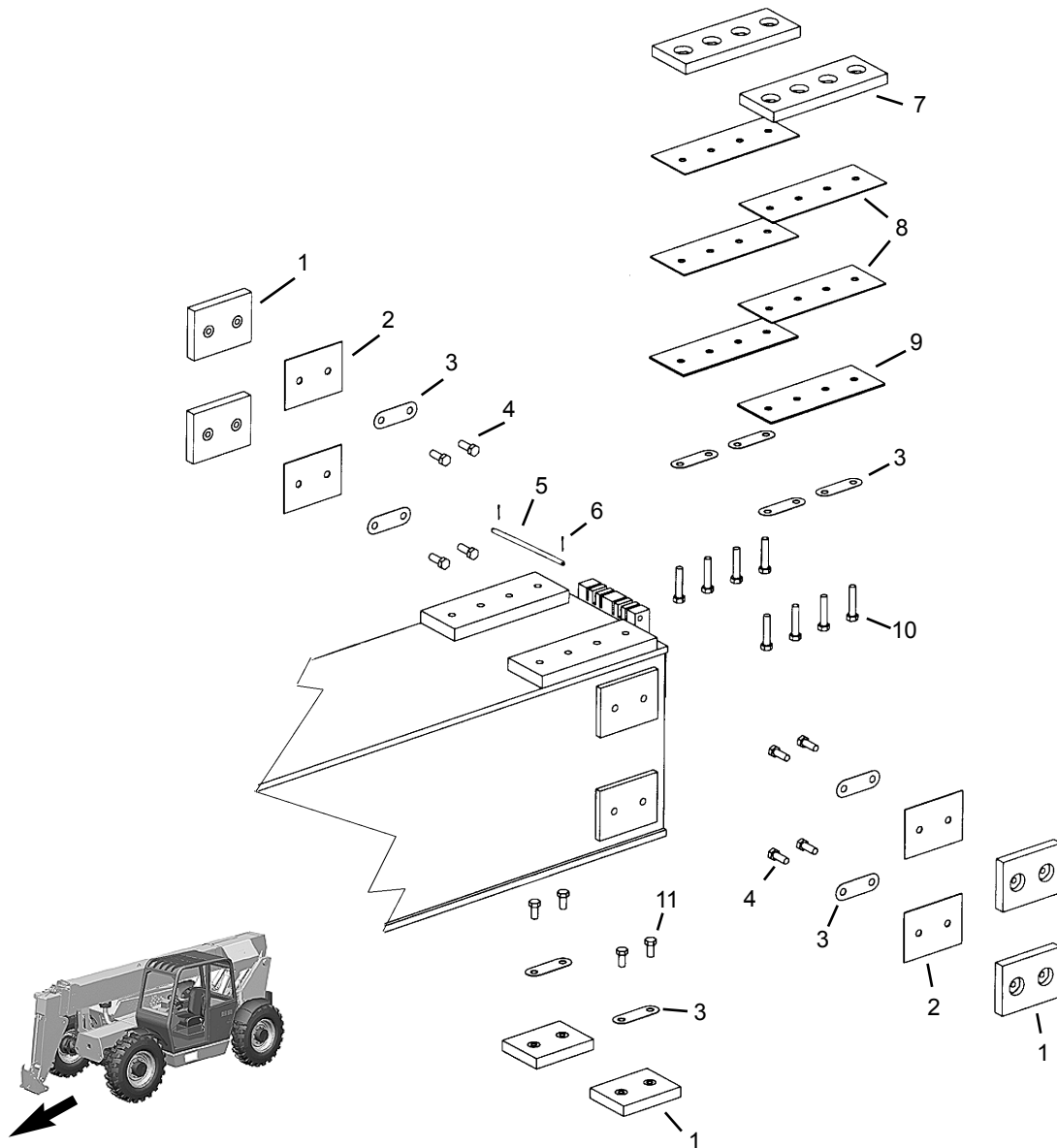
Boom - Three-Section High

Intermediate Boom - Hose Tray

DL Series Dynalift



Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01		INTERMEDIATE BOOM	1	06		HOSE TRAY	1
	L71210	40' High Boom			L69506	40' High Boom	
	L71220	44' High Boom			L69511	44' High Boom	
02	L520004	5/16" NYLON INSERT NUT	2	07	L61699	SLIDE PAD	1
05	650485	5/16"x5/8" BOLT	2	08	654026	3/8" LOCK WASHER.	1
				09	L50251	3/8"x3/4" BOLT	1
				10	L50056	5/16"-18 FLARE NUT.	1

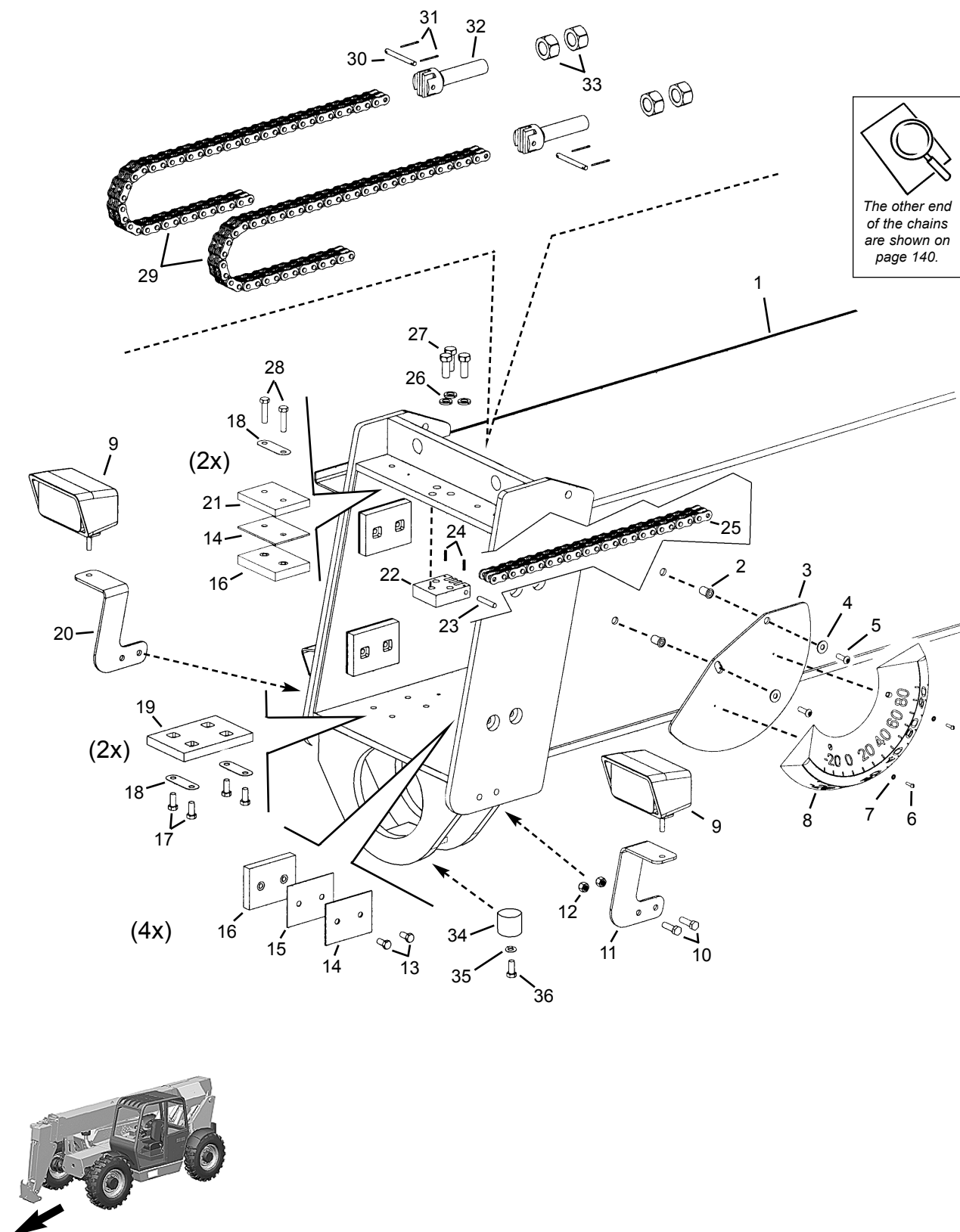


Ref. No.	Part No.	Description	Qty. Req.
01	L61709	SLIDE PAD	6
02	L62733	0.06"x3x4" SHIM	4
03	L62715	FLAT-BOLT LOCK	10
04	650490	3/8"x1" BOLT	8
05	L64467	PIN, CHAIN REAR LOW INNER...	1
06	L560003	3/32"x1-1/4" COTTER PIN	2

Ref. No.	Part No.	Description	Qty. Req.
07	L66780	SLIDE PAD	2
08	L66782	0.06"x3"x8" SHIM	4
09	L66783	0.105"x3"x8" SHIM	2
10	650488	3/8"x1-1/2" BOLT	8
11	L50251	3/8"x3/4" BOLT	4

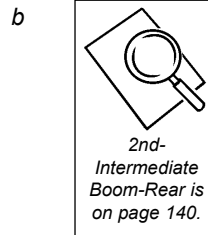
Boom - Four-Section High Outer Boom - Front Section

DL Series Dynalift

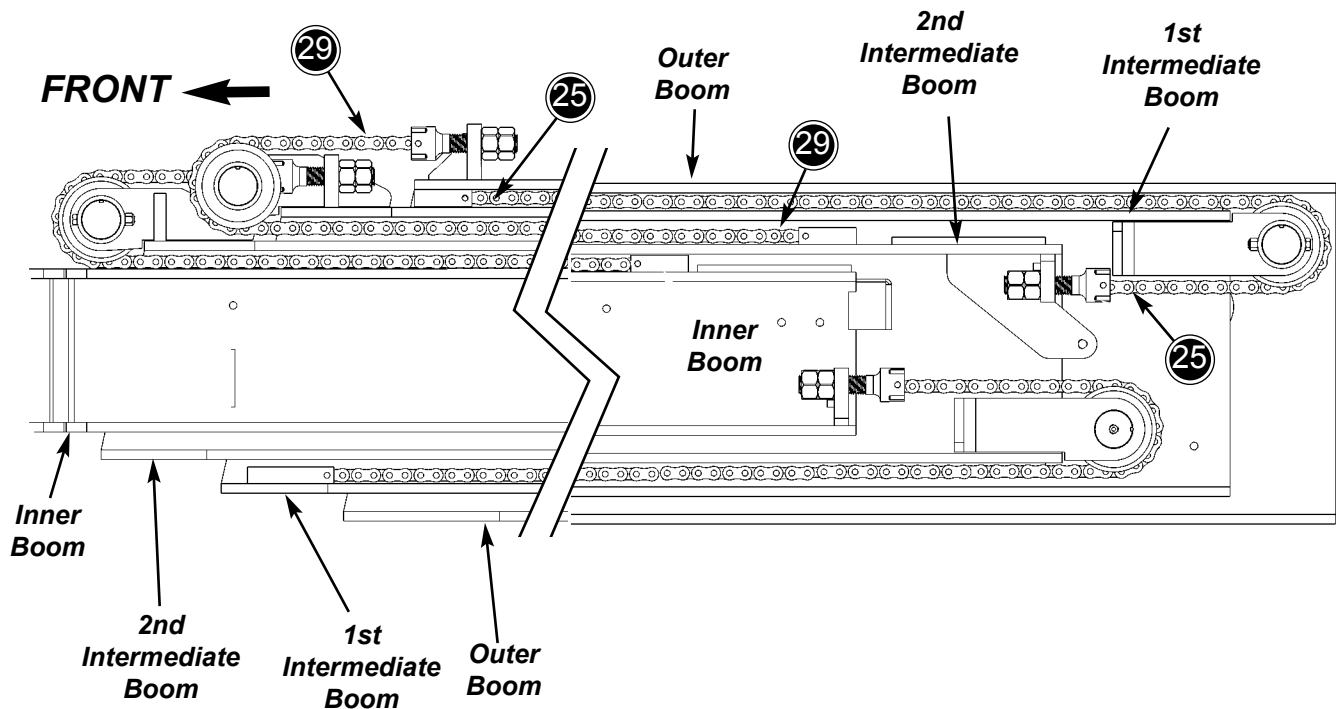


Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	L70863	OUTER BOOM WELDMENT	1	23	L71005	PIN, FIXED CLEVIS CHAIN	1
02	L70242	5/16"-18 NUT INSERT	2	24	L71021	#10-24X3/4" SET SCREW	2
03	L65640	BOOM ANGLE IND. PLATE	1	25 ^{ab}	L71001	CHAIN, LEAF (<i>retract</i>)	1
04	650810	5/16" FLAT WASHER	2	26	654030	1/2" LOCK WASHER	3
05	L52048	5/16"-18X1" BUTTON HD BOLT	2	27	L50380	1/2-20X1-1/4" GRD 8 BOLT	3
06	651271	#8X3/8" RND HD MACH SCREW	2	28	650533	3/8"X1-1/2" BOLT	4
07	L50136	#10 LOCK WASHER	2	29 ^{ab}	L71000	CHAIN, LEAF (<i>extend</i>)	2
08	L65638	INCLINOMETER - ANGLE IND.	1	30	L71007	PIN, ADJUSTABLE CLEVIS	2
09	L70040	WORK LIGHT	2	31	L560003	3/32X1-1/4" COTTER PIN	2
10	650491	3/8"-16X1-1/4" BOLT	4	32	L71006	CLEVIS, ADJUSTABLE	2
11	L70639	BOOM LIGHT BRACKET (<i>left</i>)	1	33	L50092	NUT, ADJUSTABLE CLEVIS	AR
12	L520005	3/8"-16 NYLON INSERT NUT	4	34	P272700	ISOLATOR	1
13	650488	3/8"-16X3/4" BOLT	16	35	L50282	1/2"X1" BOLT	1
14	L62734	1/8"X3"X4" SHIM	6	36	654030	1/2" LOCK WASHER	1
15	L62733	1/16"X3"X4" SHIM	4				
16	L61709	SLIDE PAD, 3"X4"	6				
17	L510007	3/8"X7/8" BOLT	8				
18	L62715	FLAT-BOLT LOCK	6				
19	L71020	SLIDE PAD, 4"X6"	2				
20	L70635	BOOM LIGHT BRACKET (<i>right</i>)	1				
21	L64143	SPACER, 1/2"X3"X4"	2				
22	L71004	CLEVIS, FIXED	1				

a This parts manual shows the same chain(s) on multiple pages. Before ordering chains, refer to the illustration below to avoid ordering the incorrect chain(s) or the incorrect quantities.



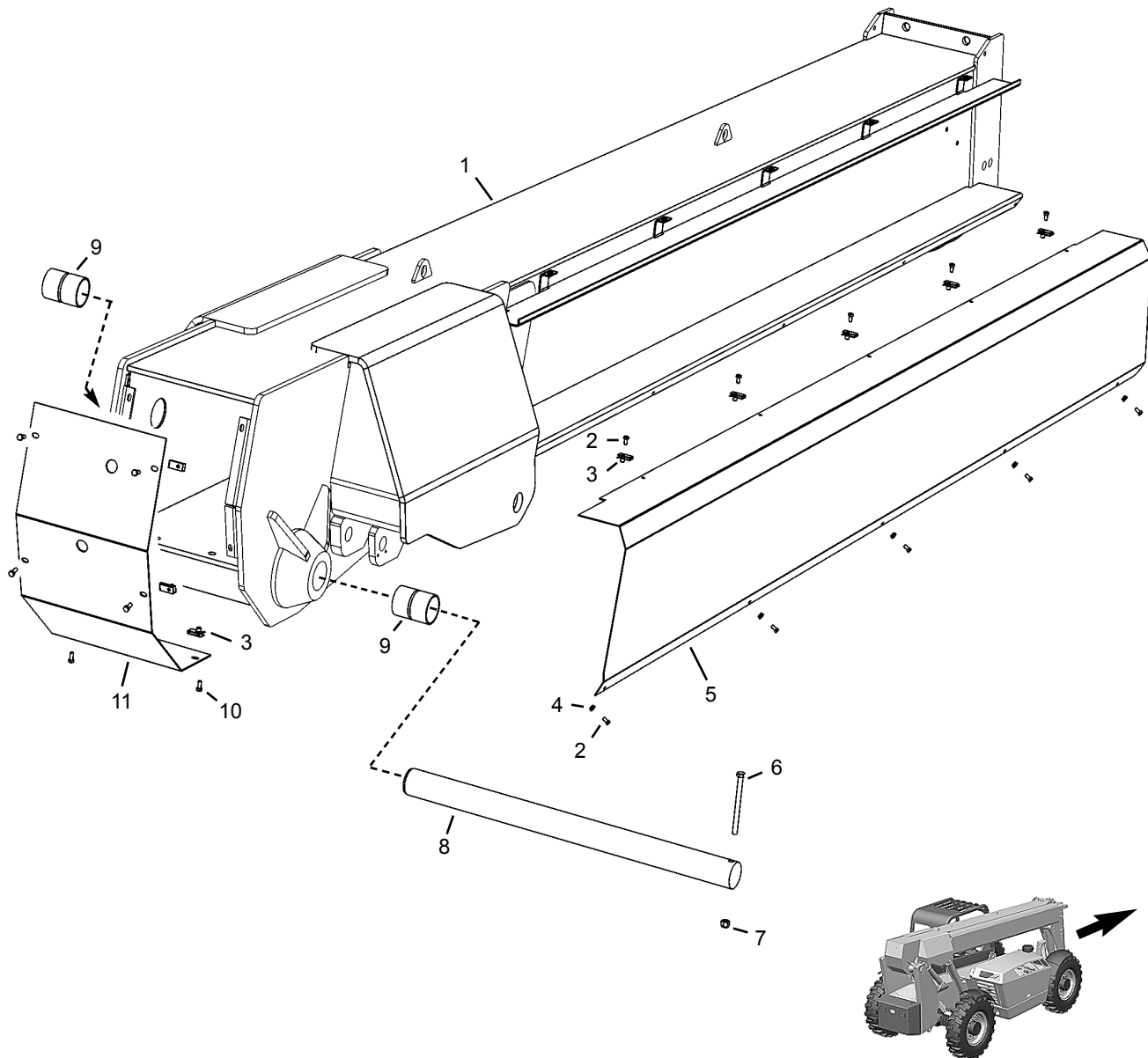
Four-Section Boom



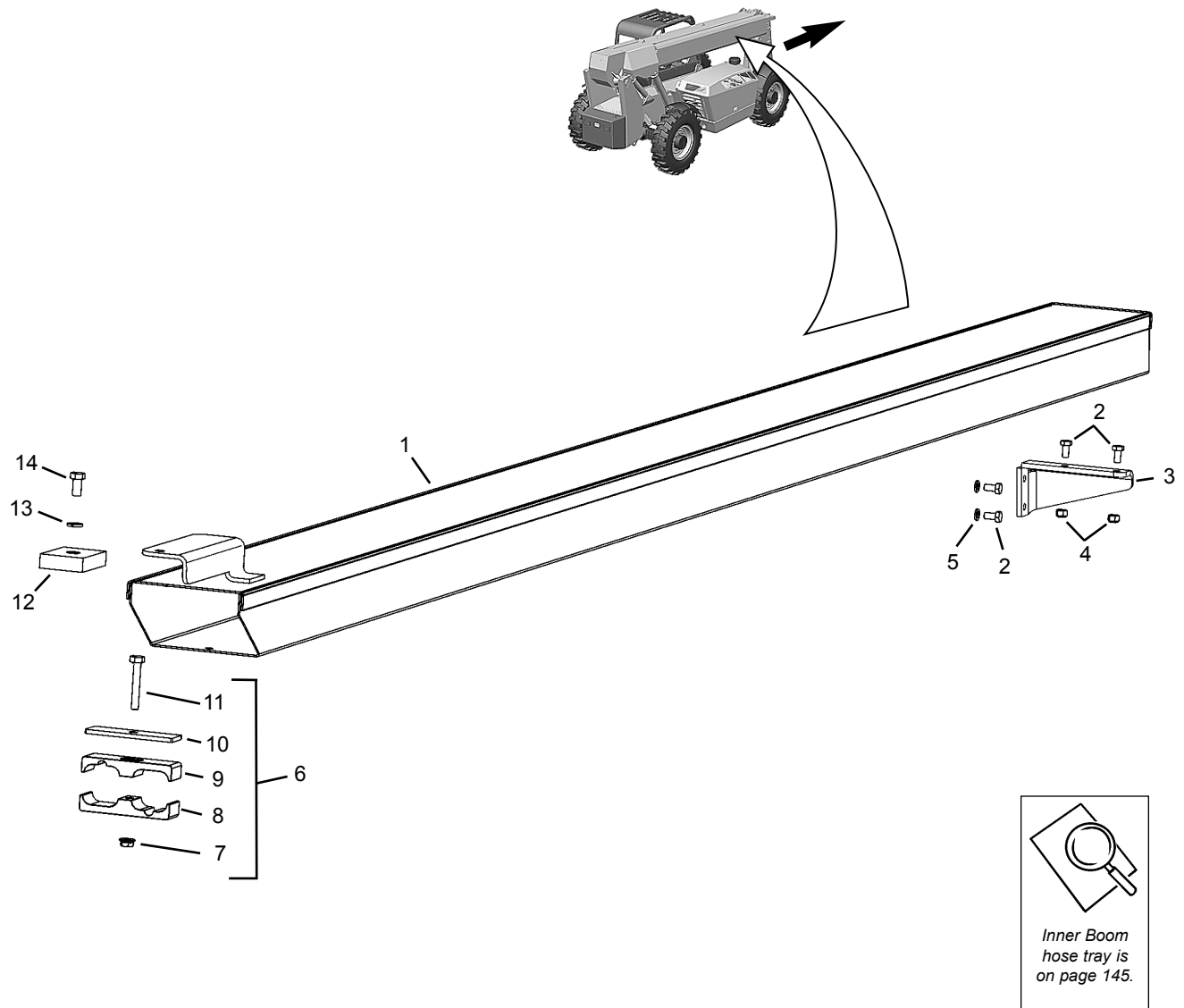
Boom - Four-Section High

Outer Boom - Rear Section and Side Cover

DL Series Dynalift



Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	L70863	OUTER BOOM SECTION.....	1	07	L520019	1/2"-13 NYLON INSERT NUT.....	2
02	650485	5/16"-18x5/8" BOLT.....	10	08	L69474	PIVOT PIN.....	2
03	L530004	5/16" RET. NUT FASTENER.....	11	09	L69492	BUSHING, PIVOT PIN.....	2
04	L50056	5/16" FLANGE NUT.....	5	10	650486	5/16"-18x3/4 BOLT.....	6
05	L70956	SIDE COVER.....	1	11	L69534	REAR COVER.....	1
06	L50463	1/2"-13x6" BOLT.....	2				

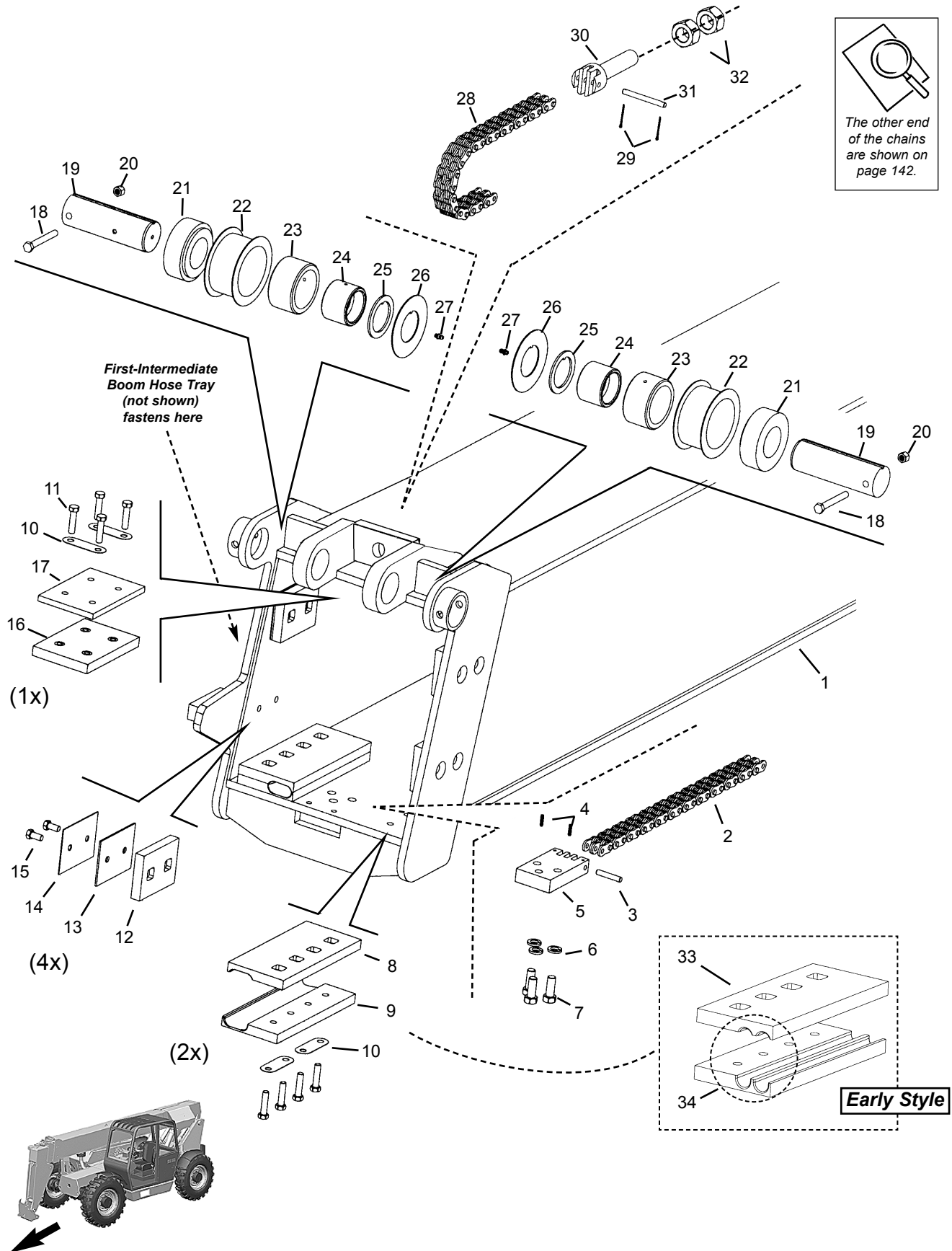


Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	L70962	HOSE TRAY, INTERMEDIATE	1	07	L50056	FL LN 5/16"-18	1
02	650485	CS 5/16x5/8" C5ZY	4	08	L71747	CLAMP W/INSERT	1
03	L69524	BRACKET, INTERMEDIATE TRAY .	1	09	L71705	CLAMP	1
04	L520004	LN INST 5/16-18	2	10	L71748	PLATE, CLAMP TOP	1
05	654024	LW 5/16"	2	11	L51035	CS 5/16"-18x2" C5ZY	1
06	L79167	HOSE RETAINER ASSEMBLY	1	12	L61699	PAD, SLIDE	1
		(includes items 7-11)		13	654026	LW 3/8" RZY	1
				14	650488	CS 3/8"x3/4" C5ZY	1

Boom - Four-Section High

First-Intermediate Boom - Front Section

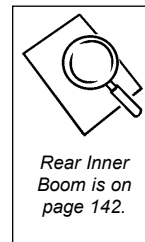
DL Series Dynalift



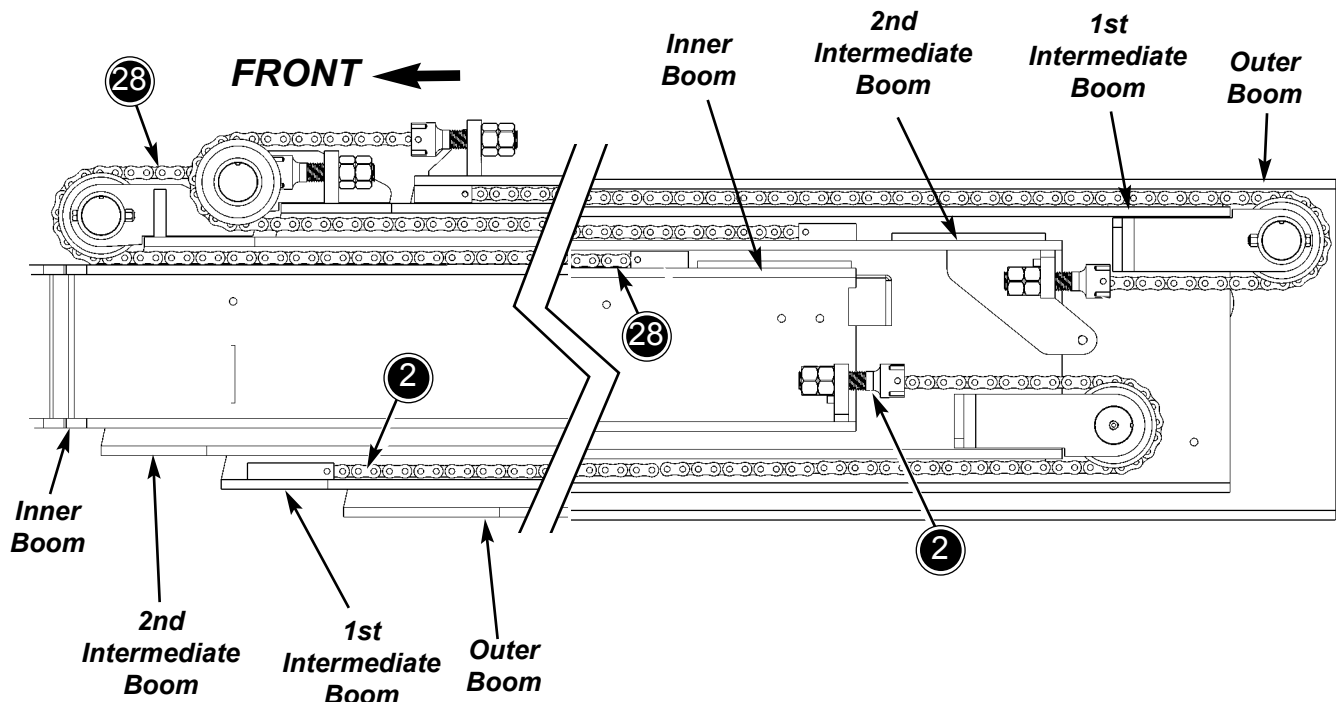
Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	L70894	1ST-INTERMEDIATE BOOM.....	1	21	L71017	SHEAVE SPACER.....	2
02 ^{ab}	L71001	LEAF CHAIN (<i>retract</i>)	1	22	L71008	CHAIN SHEAVE	2
03	L71005	FIXED CHAIN PIN.....	1	23	L49618	ROLLER BEARING.....	2
04	L71021	#10-24X3/4" SET SCREW	2	24	L49619	INNER RING	2
05	101028	FIXED CLEVIS	1	25	L71245	SPACER	2
06	654030	1/2" LOCK WASHER.....	3	26	L71214	THRUST WASHER.....	2
07	L50380	1/2"-20X1-1/4" BOLT GR8.....	3	27	570019	GREASE ZERK, STR. 1/4"-28	2
08	210760	SLIDE PAD W/CLAMP	2	28 ^{ab}	101212	LEAF CHAIN (<i>extend</i>).....	1
09	210759	SPACER PAD W/CLAMP	2	29	L560003	3/32"X1-1/4" COTTER PIN	2
10	L62715	BOLT FLAT LOCK.....	6	30	L71006	ADJUSTABLE CLEVIS	1
11	650533	3/8"-16X1"-1/2 BOLT	12	31	L71007	CHAIN PIN	1
12	L61709	SLIDE PAD 3"X4"	4	32	L50092	HEX NUT 1"-8	2
13	L62734	SHIM 0.105"X3"X4"	4	33	L71420	SLIDE PAD (<i>w/integrated clamp</i>) ..	2
14	L62733	SHIM 0.06"X3"X4"	4	34	L71419	SPACER PAD (<i>w/integrated clamp</i>)	2
15	650488	3/8"X3/4" BOLT	8				
16	L71020	TOP SLIDE PAD 4X6	1				
17	L64133	3/8"X4"X6" SPACER.....	AR				
	L63475	1/2"X4"X6" SPACER.....	AR				
	L62731	1/16"X4"X6" SHIM	AR				
	L62732	1/8"X4"X6" SHIM	AR				
18	650818	3/8"-16X3" BOLT	2				
19	L71212	SHEAVE PIN	2				
20	L520005	3/8" NYLON INSERT NUT	2				

a This parts manual shows the same chain(s) on multiple pages. Before ordering chains, refer to the illustration below to avoid ordering the incorrect chain(s) or incorrect quantities.

b



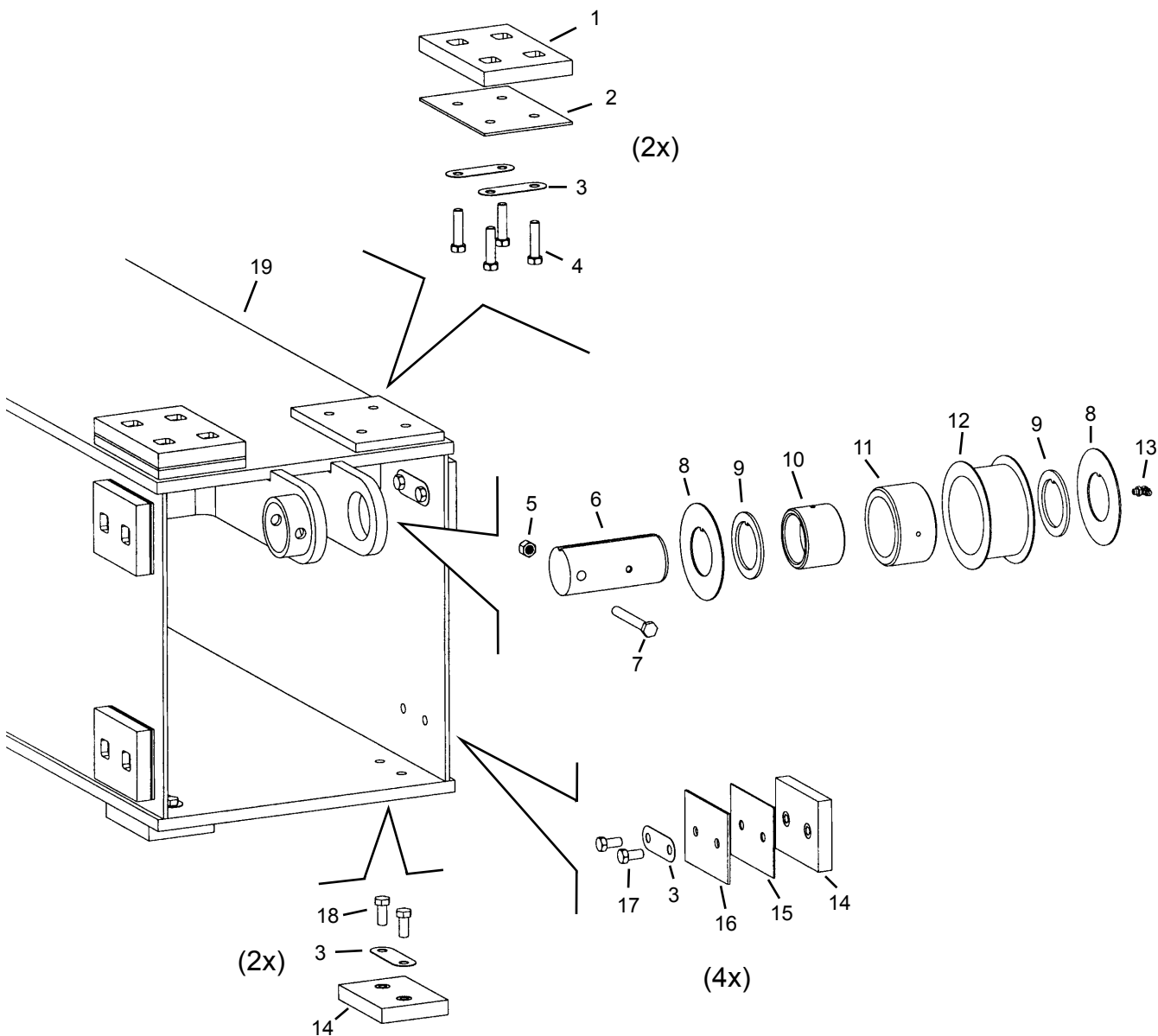
Four-Section Boom



Boom - Four-Section High

First-Intermediate Boom - Rear Section

DL Series Dynalift



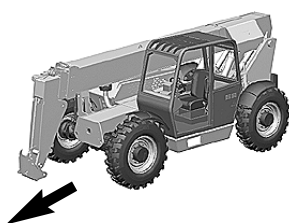
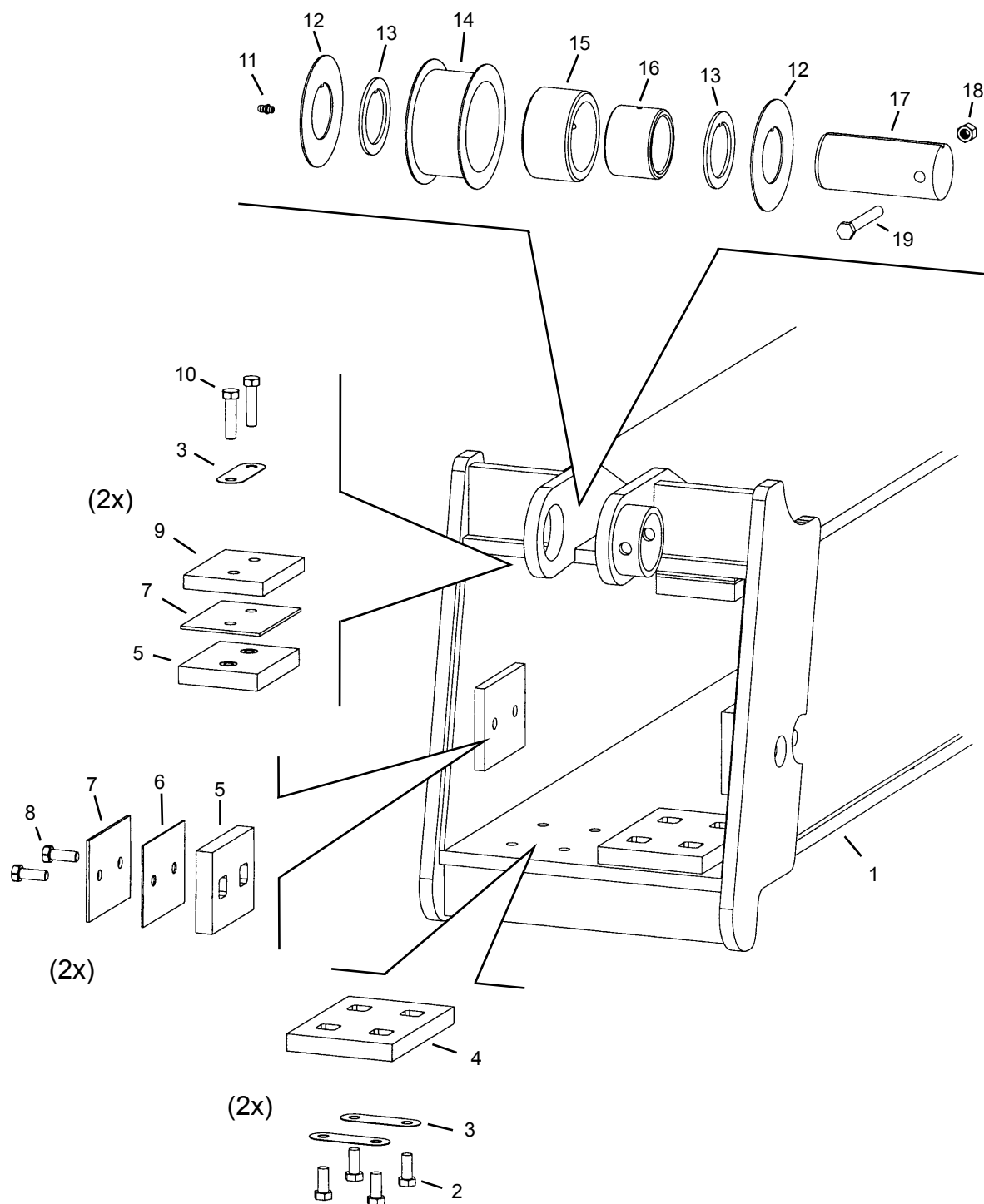
DL7/ DL9/ DL11/ DL12**Boom - Four-Section High**
First-Intermediate Boom - Rear Section

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	L71020	TOP SLIDE PAD 4"X6"	1	11	L49618	ROLLER BEARING	1
02	L62732	SHIM 1/8"X4"X6"	1	12	L71008	CHAIN SHEAVE	1
03	L62715	BOLT FLAT LOCK	10	13	076002	GREASE ZERK 90°	1
04	650533	3/8"-16X1"-1/2 BOLT	8	14	L61709	SLIDE PAD 3"X4"	6
05	L520005	3/8" NYLON INSERT NUT	2	15	L62733	SHIM 0.06"X3"X4"	4
06	L71206	SHEAVE PIN, REAR	1	16	L62734	SHIM 0.105"X3"X4"	4
07	650818	3/8"-16X3" BOLT	2	17	650488	3/8"X3/4" BOLT	8
08	L71214	THRUST WASHER	2	18	L510007	3/8"X7/8" BOLT	4
09	L71245	SPACER	2	19	L70894	1ST-INTERMEDIATE BOOM.	1
10	L49619	INNER RING	1				

Boom - Four-Section High

Second-Intermediate Boom - Front Section

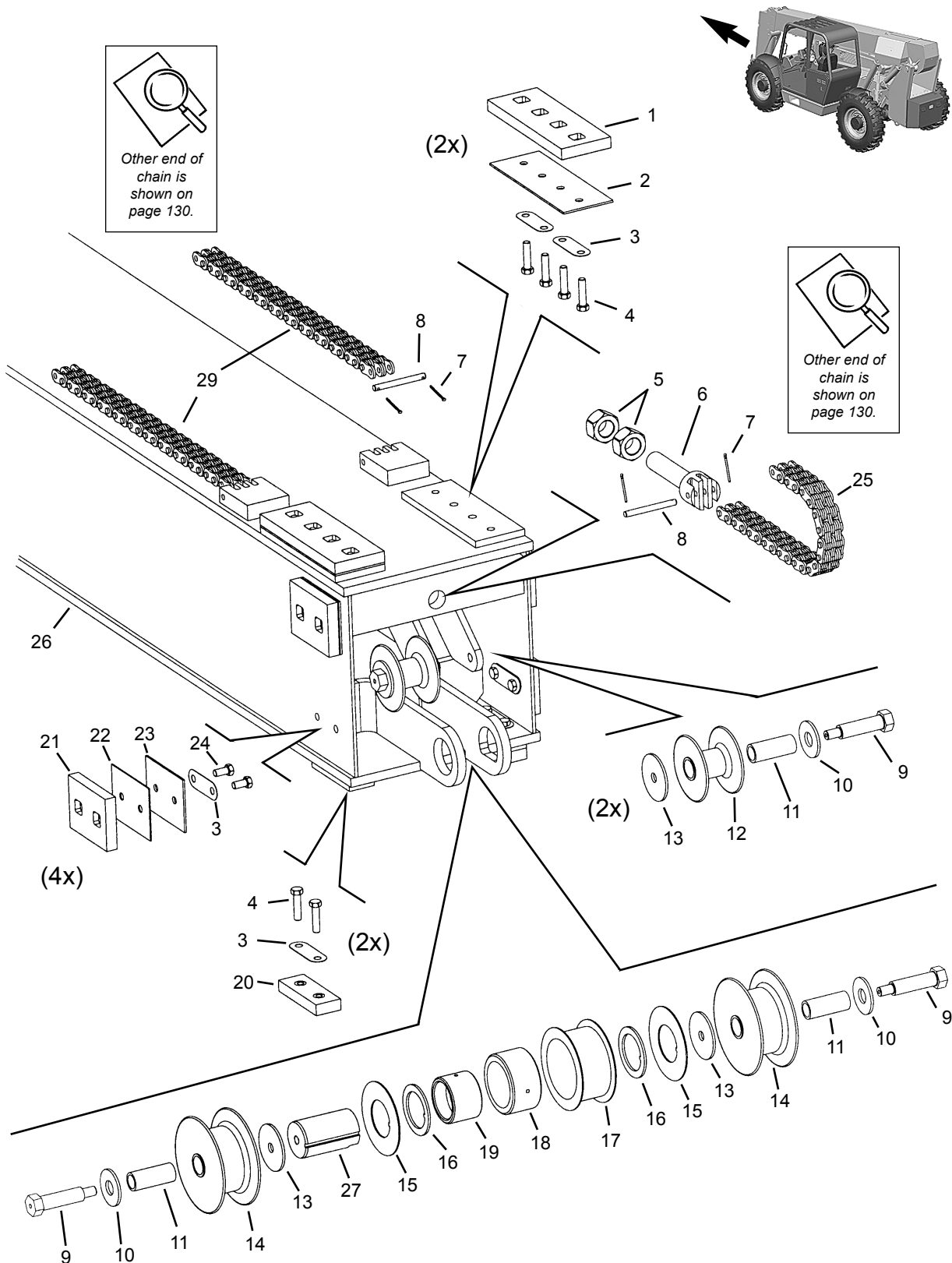
DL Series Dynalift



Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	L70912	2ND-INTERMEDIATE BOOM.....	1	11	570019	GREASE ZERK.....	1
02	L510007	3/8"X7/8" BOLT	4	12	L71214	THRUST WASHER.....	2
03	L62715	BOLT FLAT LOCK.....	6	13	L71245	SPACER	2
04	L71020	SLIDE PAD 4"X6"	2	14	L71008	CHAIN SHEAVE	1
05	L61709	SLIDE PAD 3"X4"	6	15	L49618	ROLLER BEARING.....	1
06	L62733	SHIM 0.06"X3"X4"	4	16	L49619	INNER RING	1
07	L62734	SHIM 0.105"X3"X4"	6	17	L71206	SHEAVE PIN, REAR.....	1
08	650490	3/8"X1" BOLT.....	4	18	L520005	3/8" NYLON INSERT NUT	1
09	L64143	SPACER 1/2"X3"X4"	2	19	650818	3/8"-16X3" BOLT	1
10	650533	3/8"-16X1"-1/2 BOLT	4				

Boom - Four-Section High Second-Intermediate Boom - Rear Section

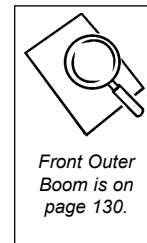
DL Series Dynalift



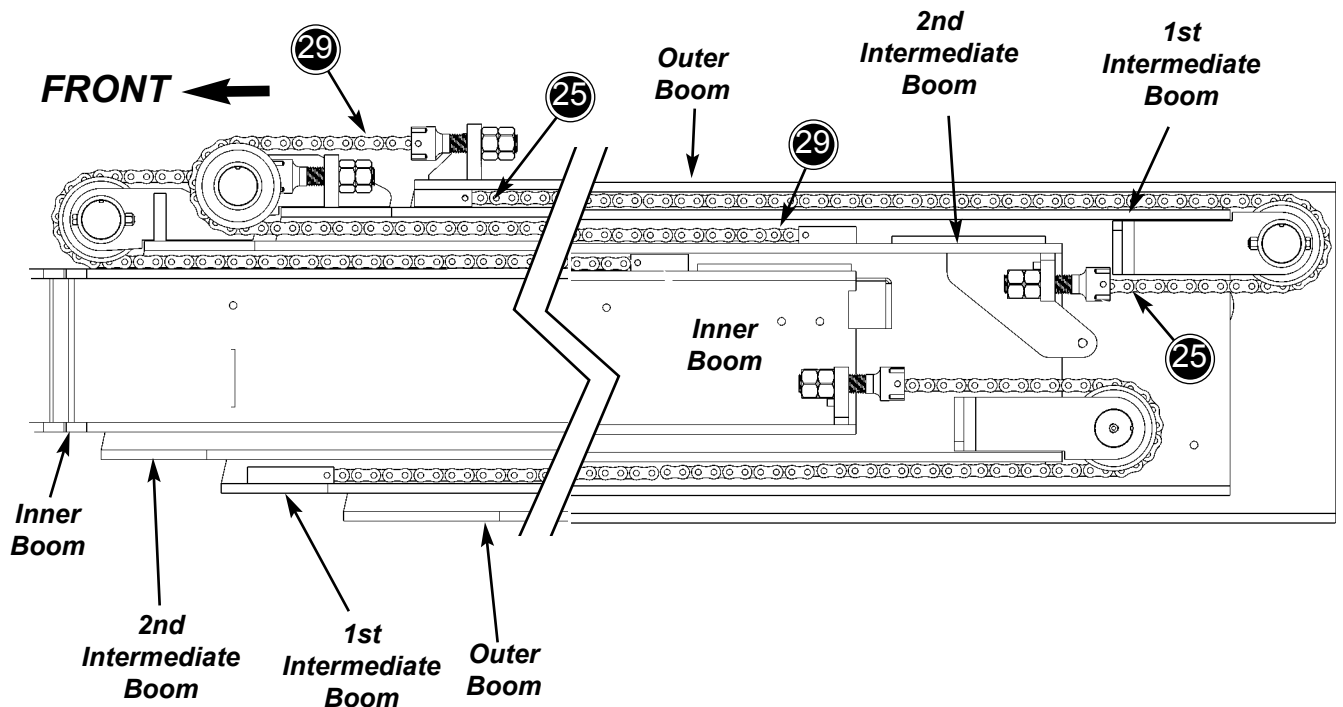
Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	L71011	SLIDE PAD 3"X8"	2	17	L71008	CHAIN SHEAVE	1
02	L66783	SHIM 0.125"X3"X8"	2	18	L49618	ROLLER BEARING	1
03	L62715	BOLT FLAT LOCK	10	19	L49619	INNER RING	1
04	650533	3/8"X1-1/2" BOLT	12	20	L71003	SLIDE PAD 1-1/2"x4"	2
05	L50092	NUT, ADJUSTABLE CLEVIS	AR	21	L61709	SLIDE PAD 3"X4"	4
06	L71006	CLEVIS, ADJUSTABLE	2	22	L62733	SHIM 0.06"X3"X4"	4
07	L560003	3/32"X1-1/4" COTTER PIN	4	23	L62734	SHIM 0.105"X3"X4"	4
08	L71007	PIN, ADJUSTABLE CLEVIS	4	24	650488	3/8"X1" BOLT	8
09	L71016	BOLT, HOSE RETAINER	4	25 ^{ab}	L71001	CHAIN, LEAF (<i>retract</i>)	1
10	654014	3/4" WASHER	4	26	L70912	2ND-INTERMEDIATE BOOM	1
11	L71389	SPACER	4	27	L71213	PIN, SHEAVE	1
12	L71010	HOSE GUIDE (<i>upper</i>)	2	29 ^{ab}	L71000	CHAIN, LEAF (<i>extend</i>)	2
13	L71014	WASHER, SHEAVE PIN	4				
14	L71347	HOSE GUIDE (<i>lower</i>)	2				
15	L71214	THRUST WASHER	2				
16	L71245	SPACER	2				

a This parts manual shows the same chain(s) on multiple pages. Before ordering chains, refer to the illustration below to avoid ordering the incorrect chain(s) or the incorrect quantities.

b



Four-Section Boom



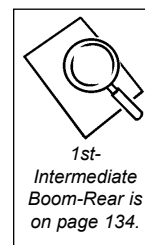
DL Series Dynalift



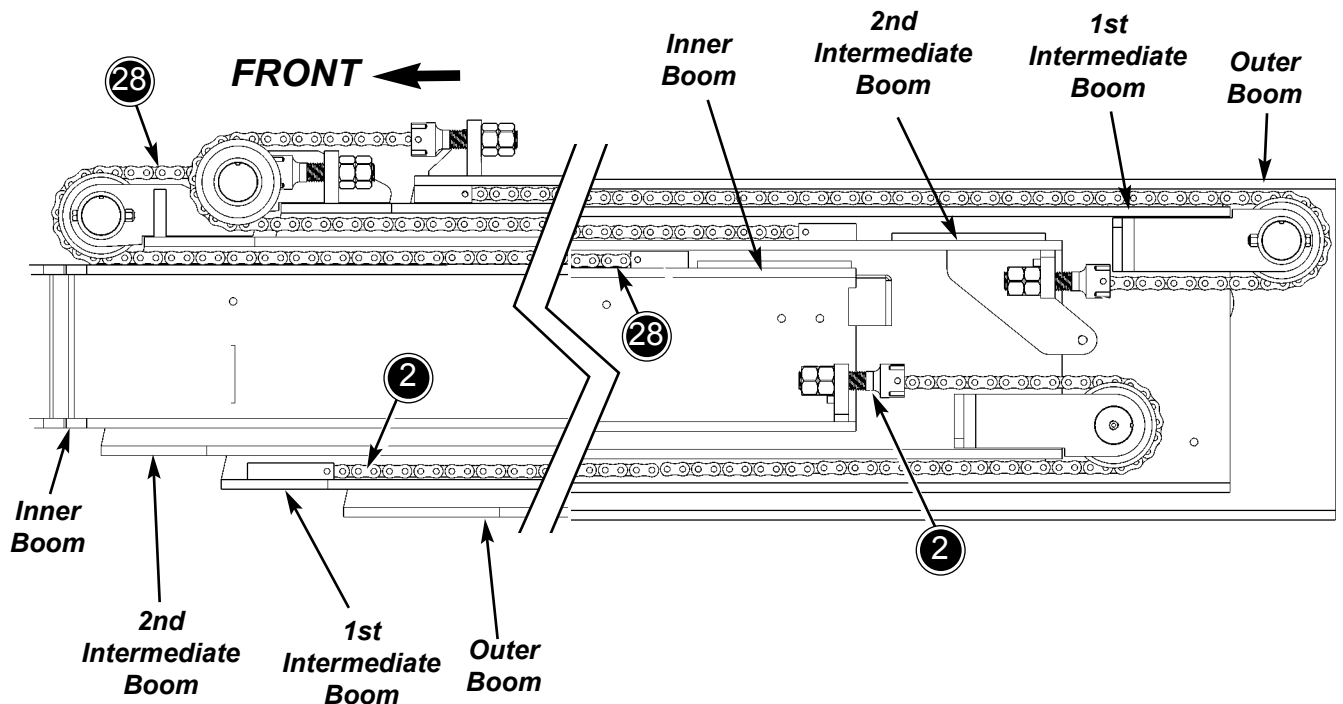
Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	L71011	SLIDE PAD 3"X8"	2	12	650490	3/8"-16X1" BOLT	4
02 ^{ab}	L71001	LEAF CHAIN (<i>retract</i>)	1	13	L62733	SHIM 0.06"X3"X4"	4
03	L66783	SHIM 0.125"X3"X8"	2	14	L62734	SHIM 0.105"X3"X4"	4
04	L62715	BOLT FLAT LOCK	8	15	L61709	SLIDE PAD 3"X4"	4
05	650533	3/8"-16X1"-1/2 BOLT	8	16	100119	INNER BOOM.	1
06	L510007	3/8"-16X7/8" BOLT	4	28 ^{ab}	101212	LEAF CHAIN (<i>extend</i>)	1
07	L71003	SLIDE PAD 1-1/2"X4"	2				
08	L560003	3/32"X1-1/4" COTTER PIN	2				
09	L71007	CHAIN PIN	1				
10	L71006	ADJUSTABLE CLEVIS	1				
11	L50092	HEX NUT 1"-8	2				

a This parts manual shows the same chain(s) on multiple pages. Before ordering chains, refer to the illustration below to avoid ordering the incorrect chain(s) or incorrect quantities.

b



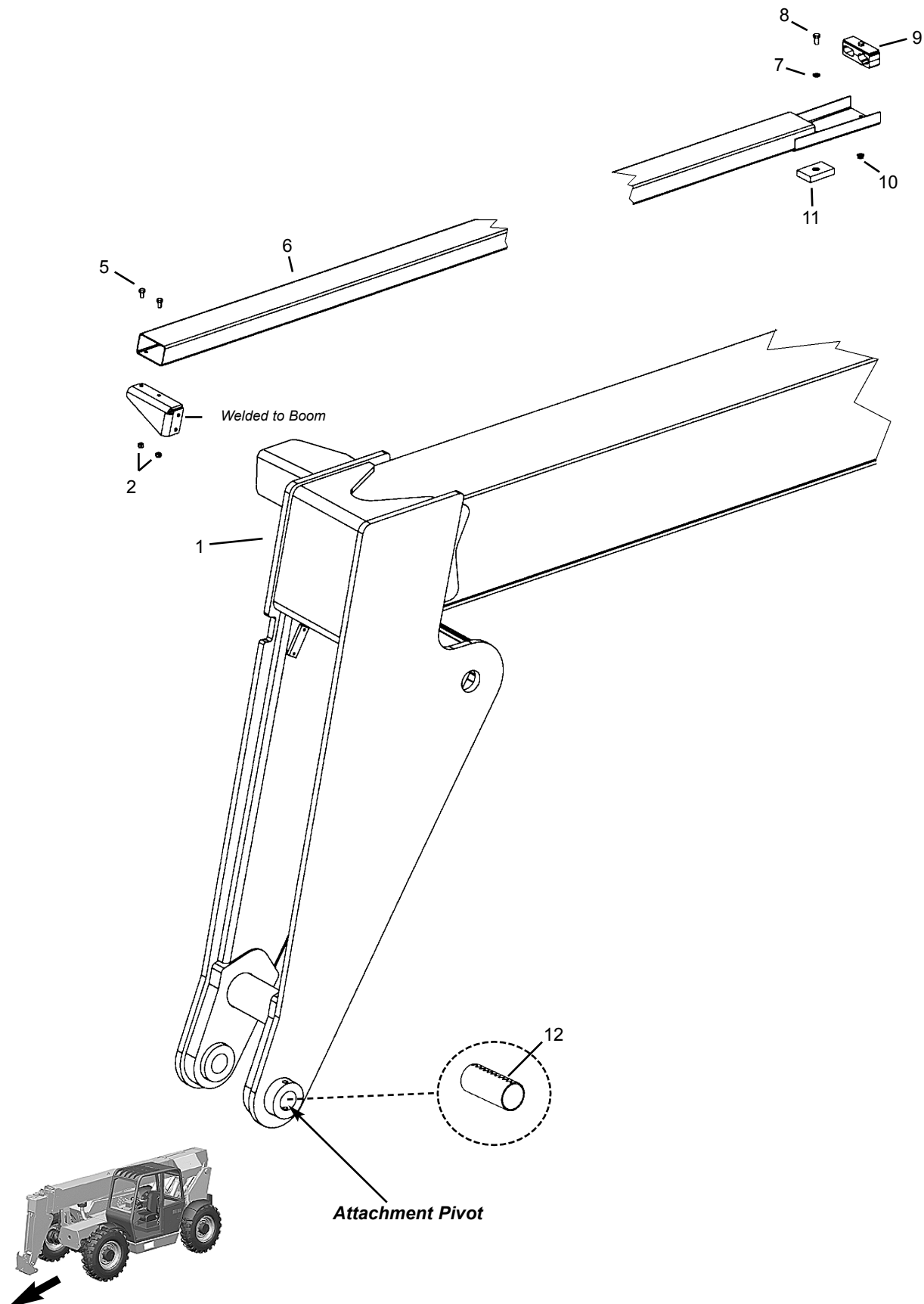
Four-Section Boom



Boom - 3- and 4-Section High

Inner Boom - Front Section

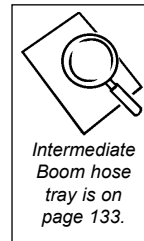
DL Series Dynalift



Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01		INNER BOOM	1	07 ^a	654026	3/8" LOCK WASHER.	1
	100112	40' High Boom		08 ^a	L50251	3/8"-16x3/4" BOLT	1
	100114	44' High Boom		09 ^a	L79167	HOSE CLAMP ASSEMBLY.	1
	100119	55' High Boom		10 ^a	L50056	5/16"-18 FLARE NUT	1
02	L520004	5/16"-18 NYLON INSERT NUT	2	11 ^a	L61699	SLIDE PAD	1
05	650485	5/16"-18x5/8" BOLT	4	12	L69723	BUSHING	2
06 ^{ab}		HOSE TRAY, INNER	1				
	L69522	40' High Boom					
	L69523	44' High Boom					

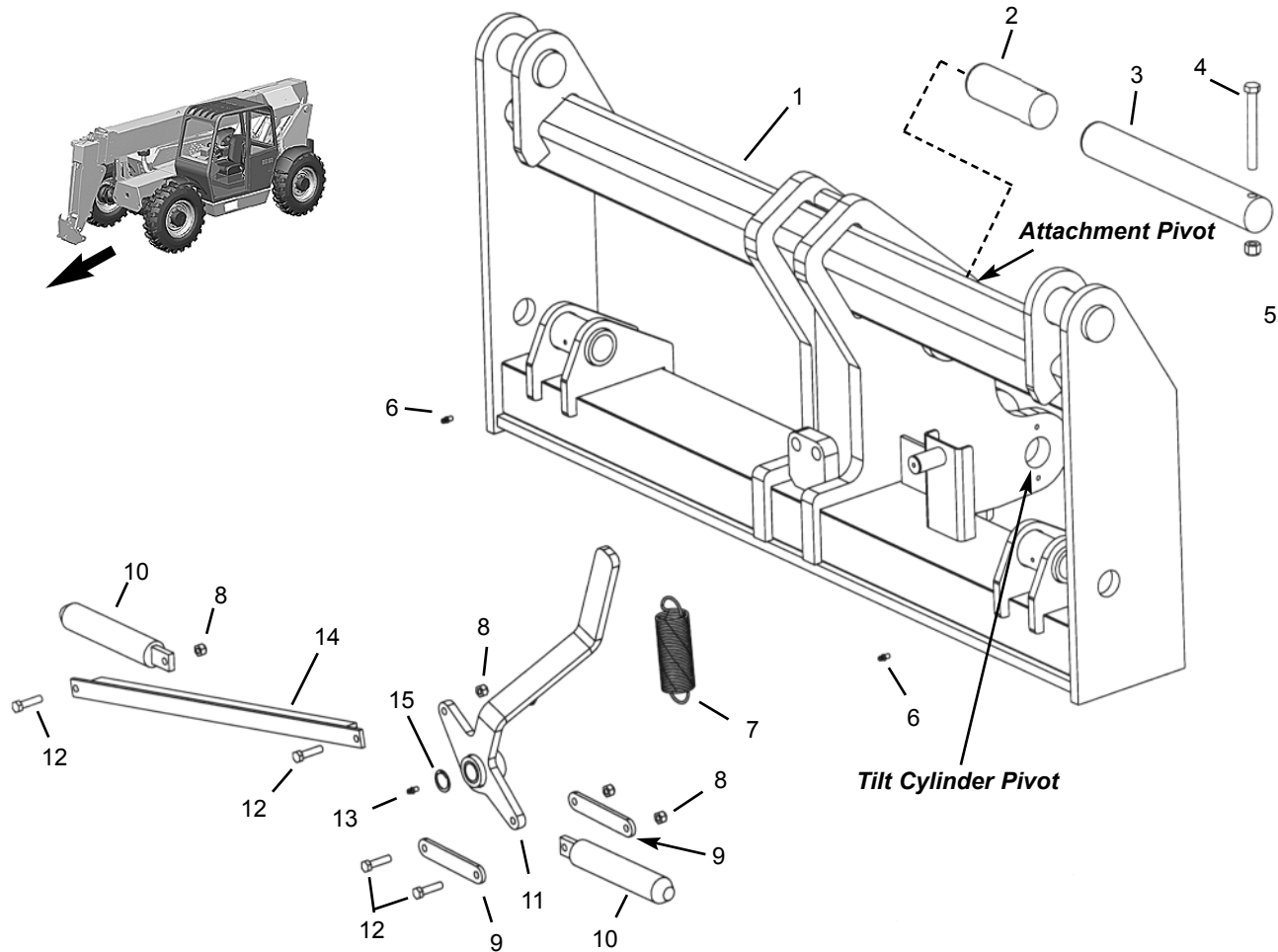
a Not used with the four-section boom.

b

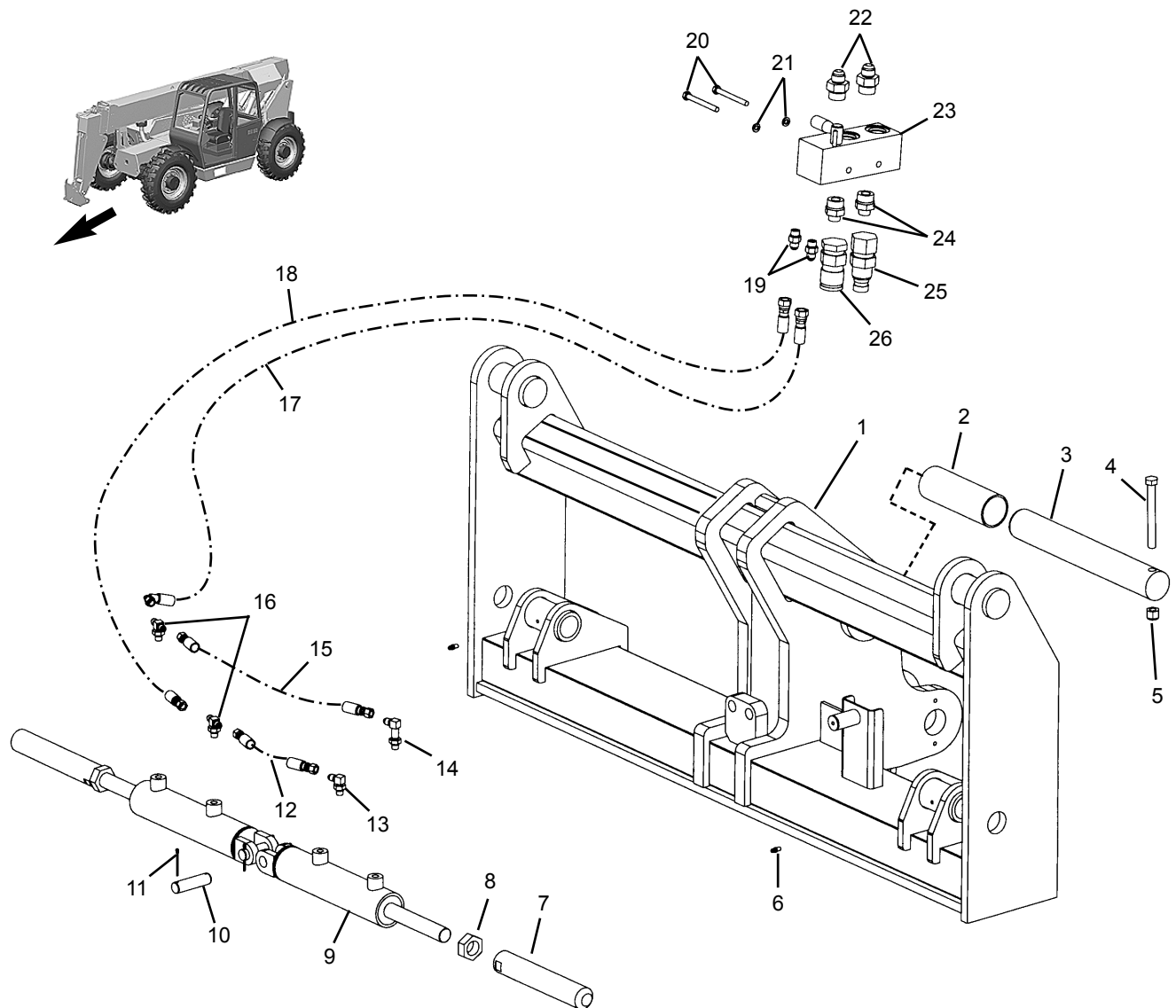


Boom - 3- and 4-Section High DynacARRIER® Bracket

DL Series Dynalift



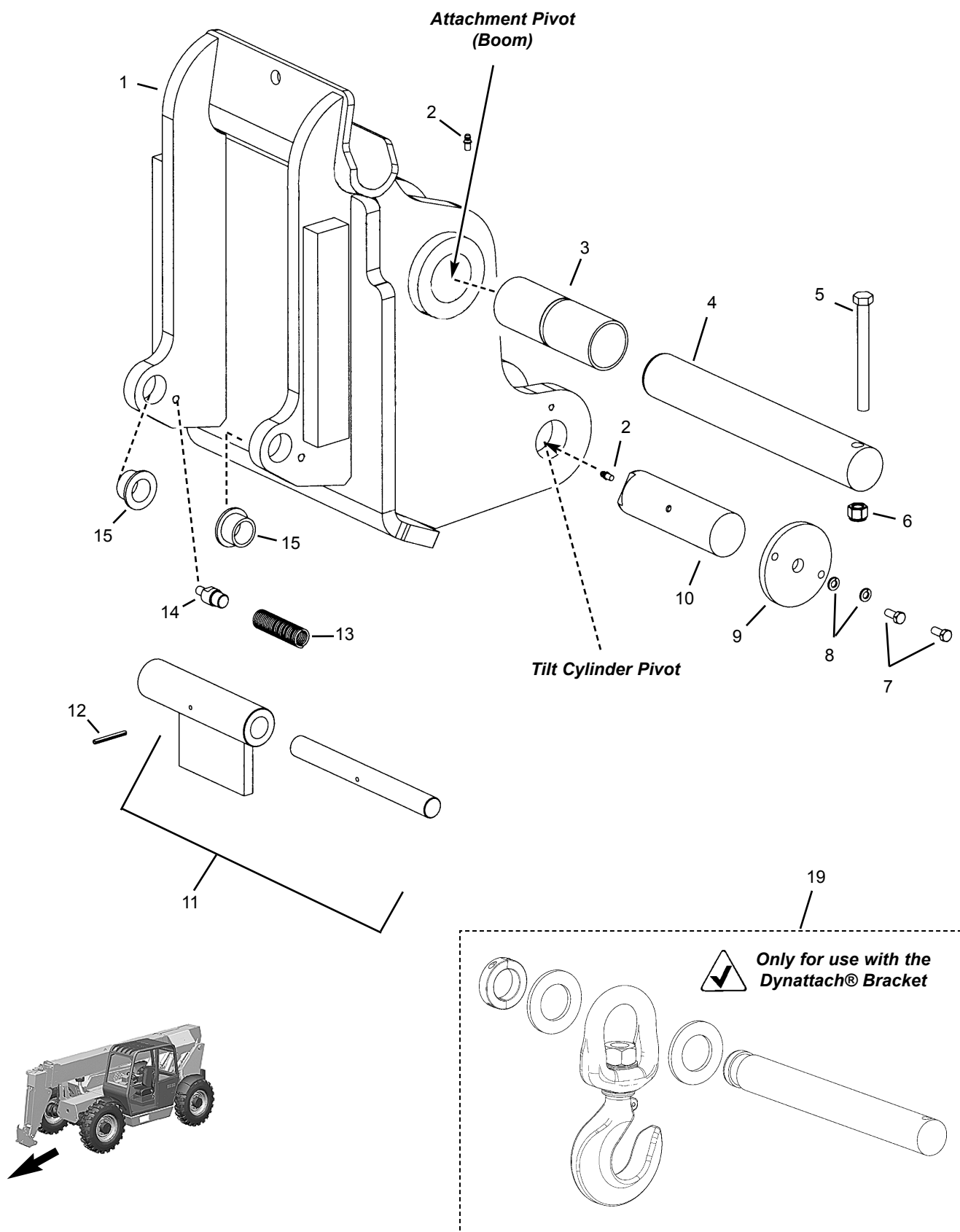
Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	100249	DYNACARRIER® BRACKET	1	09	L67106	LOCK COUPLER BAR	2
02	101351	BUSHING	1	10	L67105	LOCK PIN	2
03	100118	CARRIER PIVOT PIN	1	11	L67100	LOCK HANDLE	1
04	L50986	1/2"-13x4-1/2" BOLT	1		L67099	BRONZE BUSHING	1
05	L520019	1/2"-13 NYLON INSERT NUT	1	12	650488	3/8"-16x1-1/2" BOLT	4
06	L10465	1/4"-28 GREASE ZERK, STR.	3	13	L10465	1/4"-28 GREASE ZERK, STR.	4
07	L67448	LATCH SPRING	1	14	L67107	LATCH COUPLER BAR	1
08	L520005	3/8"-16 NYLON INSERT NUT	4	15	L276632	1" RETAINING CLIP	1



Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	100249	DYNACARRIER® WELDMENT ... 1 (includes item 2)	1	14	L445123	ADAP., -4ORM -4JICM 90° LONG . 1	1
02	101351	BUSHING 1	1	15	L71601	HOSE, -4 A4/A4 22" 1	1
03	100118	CARRIER PIVOT PIN 1	1	16	230-32753	ADAP., -4 ORM -4JICM TEE 2	2
04	L50986	1/2"-13x4-1/2" BOLT 1	1	17	L71654	HOSE, -4 DS4/A6 33" 1	1
05	L520019	1/2"-13 NYLON INSERT NUT 1	1	18	L71602	HOSE, -4 A4/A6 38" 1	1
06	L10465	1/4"-28 GREASE ZERK, STR. 3	3	19	054994	ADAP., -6ORM -6JICM STR. 2	2
07	L71551	ATTACHMENT LOCK PIN. 2	2	20	650833	5/16"-18x3" BOLT 2	2
08	210-32160	1" JAM NUT 2	2	21	654024	5/16" LOCK WASHER. 2	2
09	L71425	LOCK CYLINDER W/SPRING 2	2	22	072602	ADAP., -12ORM -12JICM STR. 2	2
10	L71552	PIN, RELEASE CYL BASE 2	2	23	L71647	ATTACH REL. MANIFOLD 1	1
11	L50604	1/8"x1-1/2" COTTER PIN 4	4		L500585	HANDLE 1	1
12	L71600	HOSE, -4 A4/A4 10" 1	1	24	L448013	ADAP., -12ORM -8ORM STR. 2	2
13	095601	ADAP., -4ORM -4JICM 90° 1	1	25	L71686	MALE COUPLER 1	1
				26	L71687	FEMALE COUPLER 1	1

Boom - 3- and 4-Section High Dynattach® Bracket

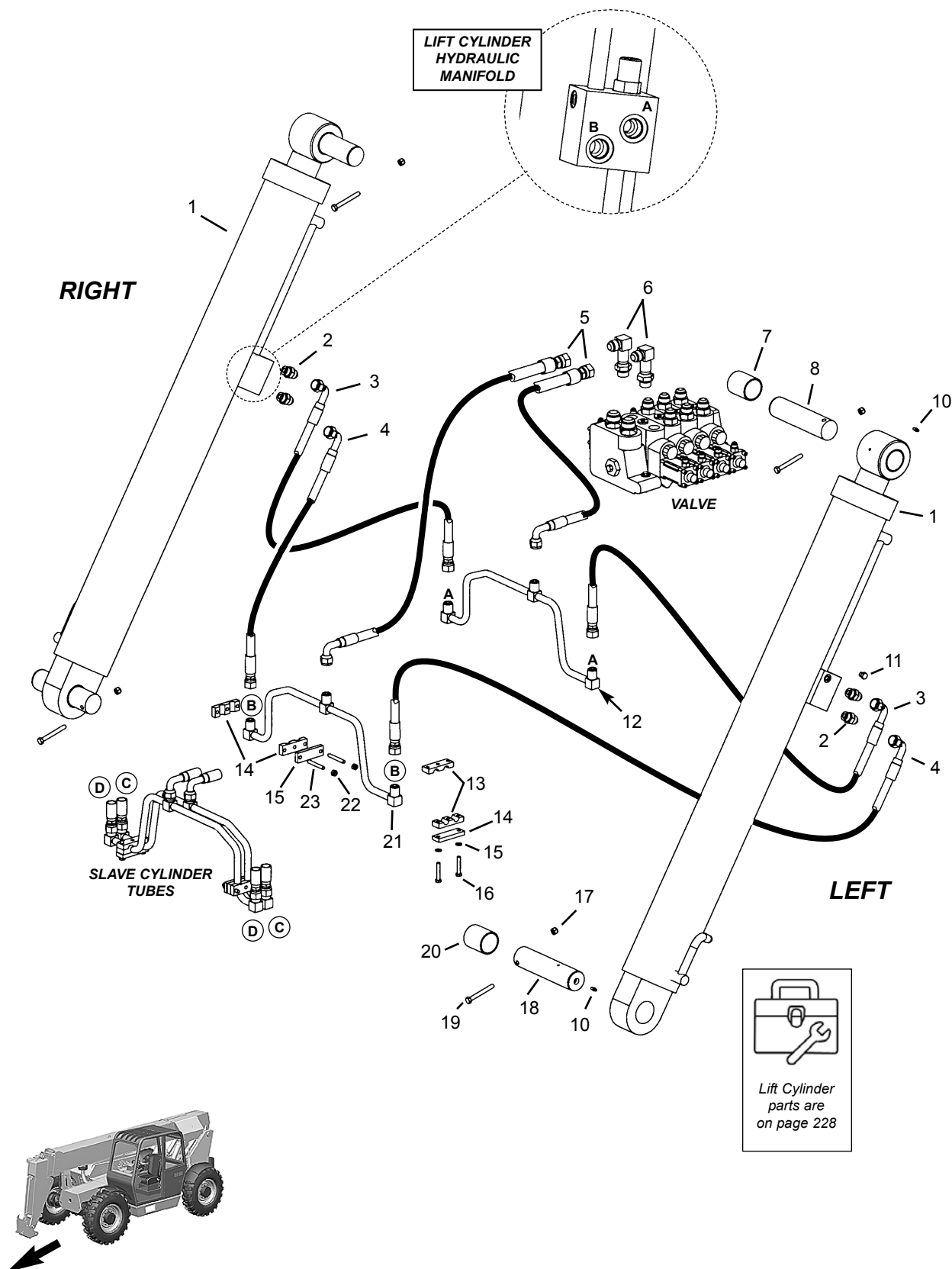
DL Series Dynalift



Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	101055	DYNATTACH® BRACKET	1	09	L69724	PIN CAP	1
02	L10465	1/4"-28 STR GREASE ZERK	2	10	L69727	PIN, TILT CYLINDER	1
03	101351	BUSHING	1	11	L66453	LOCK AND PIN ASSEMBLY	1
04	100118	CARRIER PIVOT PIN	1	12	L50646	3/16"x1-3/4" ROLL PIN	1
05	L50986	1/2"x4-1/2" BOLT	1	13	L65097	LOCK SPRING	1
06	L520019	1/2" NYLON INSERT NUT	1	14	L65098	SPRING MOUNT	1
07	650486	5/16"x3/4" BOLT	2	15	L66456	BUSHING	2
08	654024	5/16" LOCK WASHER	2	16	50381154	KIT, LIFTING HOOK (option)	1



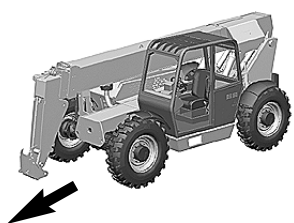
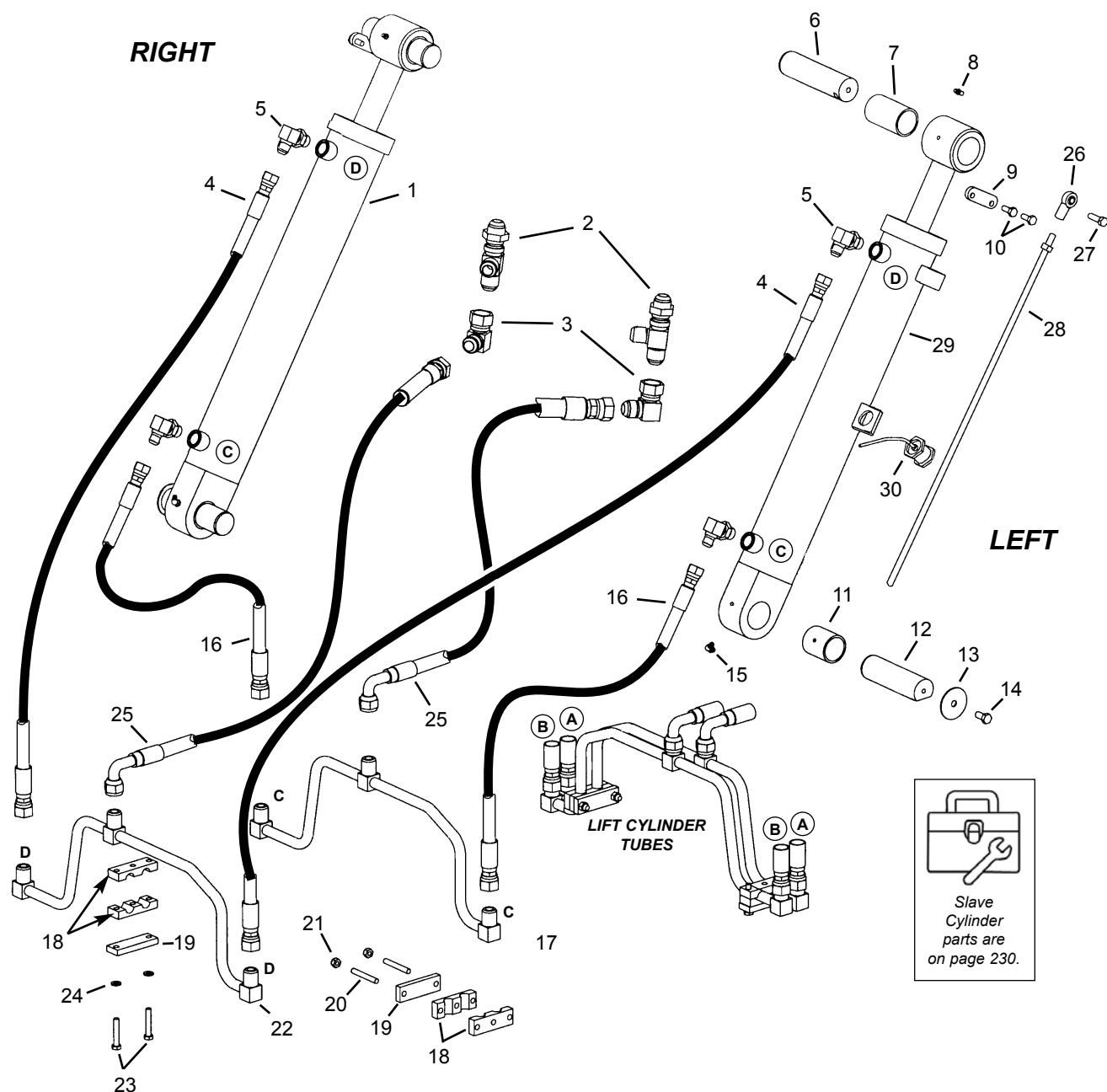
NOTE: The lifting hook kit is only available for units equipped with the Dynattach® bracket (as shown on the facing page). This kit is not compatible with units equipped with the Dynacarrier® bracket.



Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	L69135	LIFT CYLINDER	1	13	L68039	DOUBLE TUBE CUSHION	4
02	072580	ADAP., -10ORM -10JICM STR	4	14	L63715	TWIN CUSHION TOP PLATE	2
03	L70806	HOSE, -8 A10/DS10 24"	2	15	654024	5/16" LOCK WASHER	2
04	L70460	HOSE, -8 A10/DS10 23"	2	16	650692	5/16"-18x1-3/4" BOLT	2
05	L69913	HOSE, -12 A12/DS10 36"	2	17	L520005	3/8"-16 NYLON INSERT NUT	4
06	140883	ADAP., -12ORM -12JICM 90° LNG .	2	18	L69599	LIFT PIN (<i>base end</i>)	2
07	L69142	BUSHING 2"x2.25"x3.5"	2	19	650818	3/8"-16x3" BOLT	4
08	L69600	LIFT PIN (<i>rod end</i>)	2	20	L69138	BUSHING	2
09	NA	0	21	L69558	LIFT/SLAVE TUBE ASSEMBLY . . .	1
10	L10465	1/4"-28 GREASE ZERK STR	4	22	L520004	5/16"-18 NYLON INSERT NUT	2
11	230-32364	PLUG -4ORM	2	23	L50877	5/16"-18x2-1/4" STUD	2
12	L69557	LIFT/SLAVE TUBE ASSEMBLY . . .	1				

Hose Locator

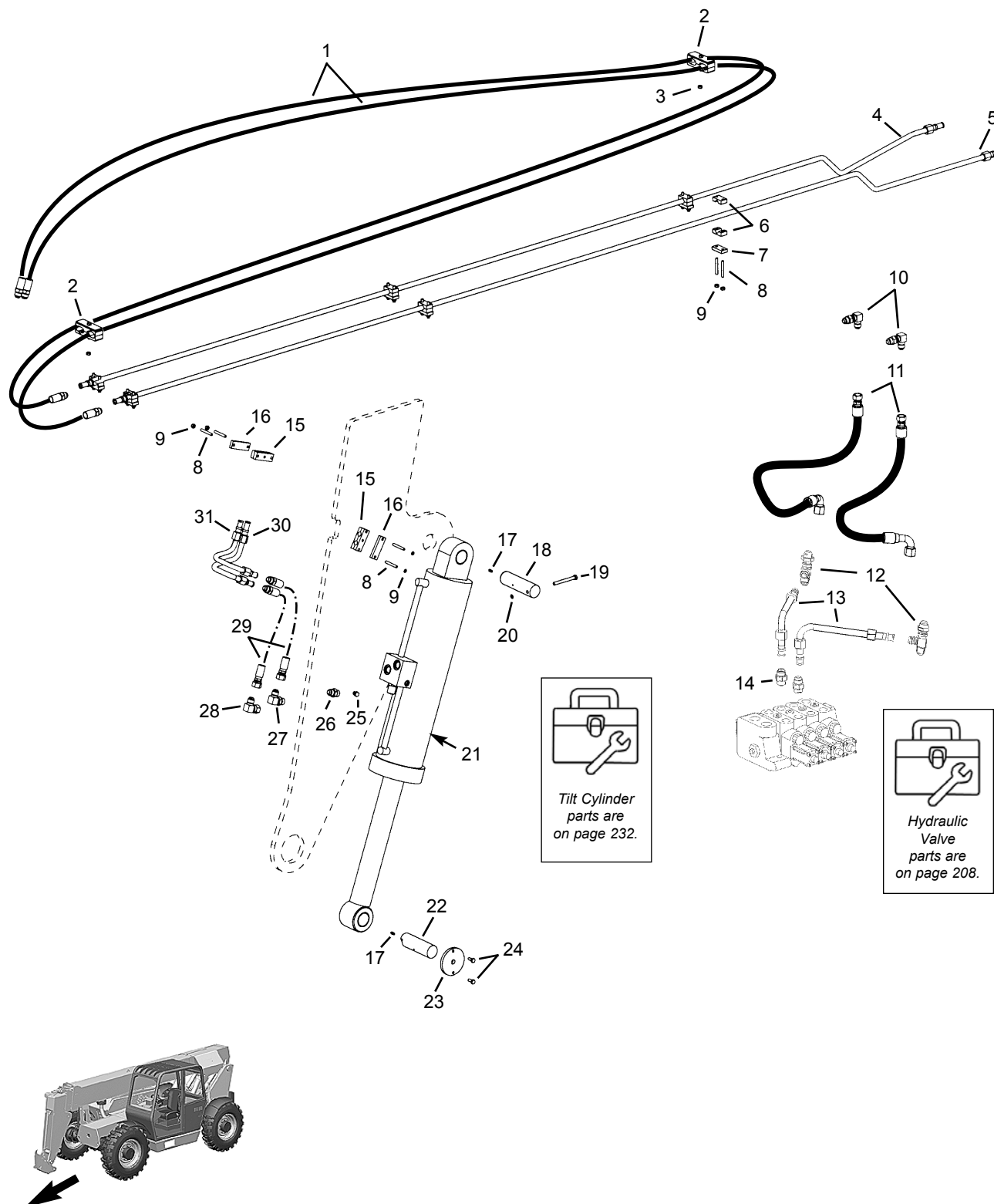
Ref No.	From Port	To Port
03	LIFT CYLINDER/MANIFOLD "A"	LIFT/SLAVE TUBE ASSEMBLY "A" (<i>as shown</i>)
04	LIFT CYLINDER/MANIFOLD "B"	LIFT/SLAVE TUBE ASSEMBLY "B" (<i>as shown</i>)
05	LIFT/SLAVE TUBE ASSEMBLY "A & B"	VALVE "A & B" (<i>as shown</i>)



Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	L69149	SLAVE CYLINDER (<i>right</i>)	1	17	L69558	LIFT/SLAVE TUBE ASSEMBLY . . .	1
02	P471299	ADAP., -12JICM BLKHD R TEE . . .	2	18	L68039	DOUBLE TUBE CUSHION	4
03	075235	ADAP., -12JICFS -12JICM 90° . . .	2	19	L63715	TWIN CUSHION TOP PLATE	2
04	L69910	HOSE, -8 A8/A10 57"	2	20	L50877	5/16"-18x2-1/4" STUD	2
05	054816	ADAP., -8ORM -8JICM 90°	4	21	L520004	5/16"-18 NYLON INSERT NUT . . .	2
06	L70176	SLAVE CYL. PIN (ROD END)	2	22	L69557	LIFT/SLAVE TUBE ASSEMBLY . . .	1
07	L63018	BUSHING 660 1.5"IDx3.0"	2	23	650692	5/16"-18x1-3/4" BOLT	2
08	L10465	1/4"-28 GREASE ZERK STR	2	24	654024	5/16" LOCK WASHER	2
09	L70177	PIN LOCK BAR	2	25	L69908	HOSE, -8 A12/DS10 50"	2
10	650486	5/16"-18x3/4" BOLT	4	26	L70183	3/8" ROD END	1
11	L68003	BUSHING	2	27	650491	3/8"-16x1-1/4" BOLT	1
12	L71222	SLAVE CYLINDER PIN	2	28	L70182	PROXIMITY SENSOR ROD	1
13	L50170	WASHER, 0.41" IDX2.0"OD	2		650552	3/8"-24 NUT	1
14	L50251	3/8"-16x3/4" BOLT	2	29	L70251	SLAVE CYLINDER (<i>left</i>)	1
15	L10057	1/4"-28 GREASE ZERK 90°	2	30	L71165	PROXIMITY SWITCH	1
16	L69911	HOSE, -8 A8/A10 38"	2				

Hose Locator

Ref No.	From Port	To Port
04	SLAVE CYLINDER "D"	LIFT/SLAVE TUBE ASSEMBLY "D" (<i>as shown</i>)
16	SLAVE CYLINDER "C"	LIFT/SLAVE TUBE ASSEMBLY "C" (<i>as shown</i>)
25	LIFT/SLAVE TUBE ASSEMBLY "D"	(RIGHT) BULKHEAD TEE FITTING ABOVE
25	LIFT/SLAVE TUBE ASSEMBLY "C"	(LEFT) BULKHEAD TEE FITTING ABOVE



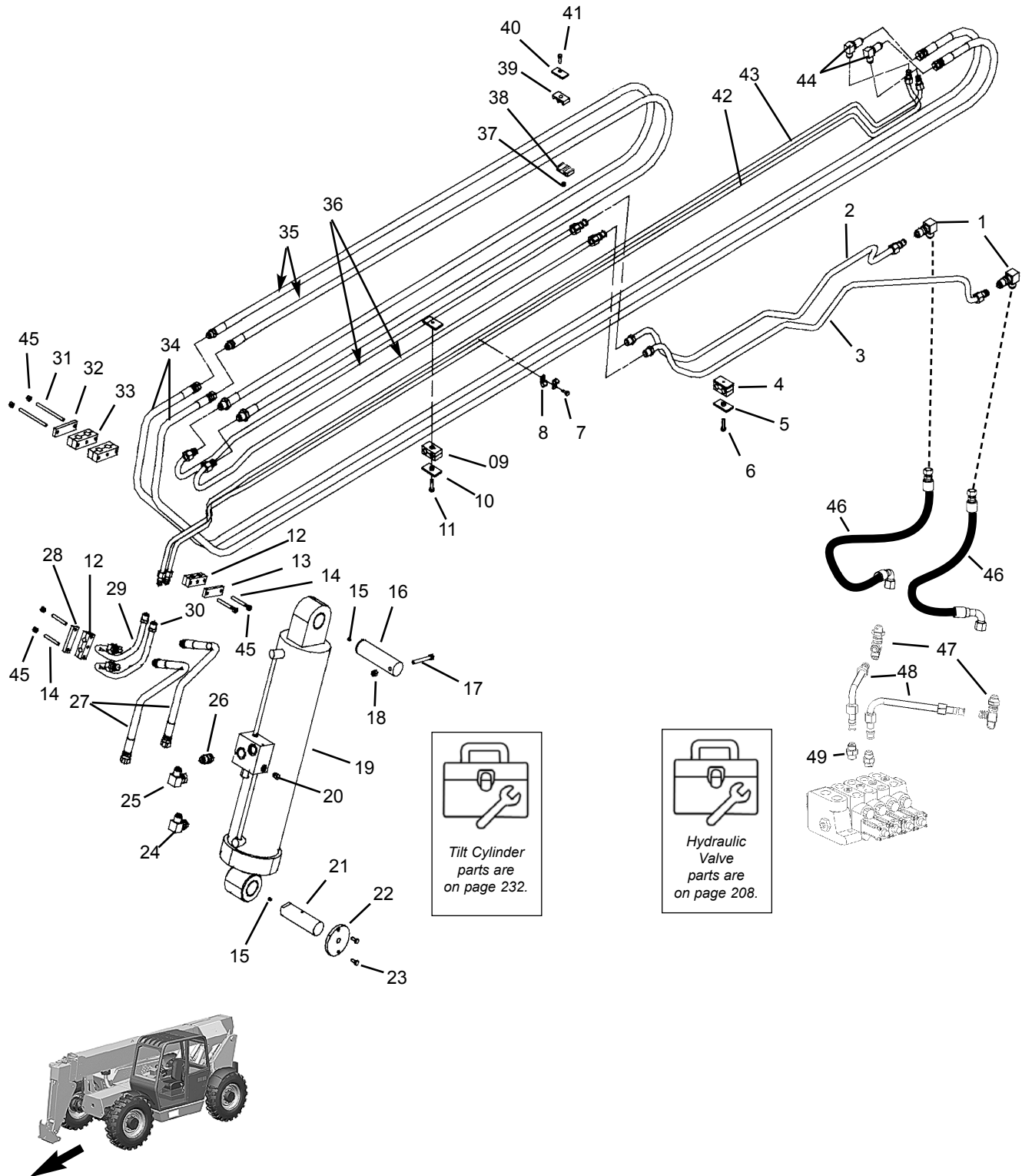
DL7/ DL9/ DL11/ DL12**Boom Hydraulics*****Tilt Cylinder Group - Three-Section High Boom***

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01		HOSE, -8 H10/H10	2	15	L68039	TUBE CUSHION DBL 5/8"	4
	L70092	40' High Boom		16	L63715	HOSE CUSHION TOP PLATE	2
	L69944	44' High Boom		17	L40165	1/4"-28 GREASE ZERK STR.	2
	L500784	HOSE SLEEVE	1	18	L69601	PIN, TILT CYL BASE END	1
02	L79167	HOSE CLAMP ASSEMBLY	2	19	650731	3/8"-16x3-1/2" BOLT	1
03	L50056	5/16"-18 FLARE NUT	2	20	L520005	3/8" NYLON INSERT NUT	1
04	L69453	TILT CYLINDER TUBE	1	21	L69144	TILT CYLINDER	1
05	L69452	TILT CYLINDER TUBE	1	22	L69727	PIN, TILT CYL ROD END	1
06	L67341	TUBE CUSHION, SINGLE 5/8"	12	23	L69724	PIVOT PIN CAP	1
07	L67446	TUBE CUSHION TOP PLATE	6	24	650486	5/16"-18x3/4" BOLT	2
08	L50877	5/16"-18x2-1/4" STUD	16	25	230-32364	PLUG, AIRWAY -4ORM	1
09	L520004	5/16"-18 NYLON INSERT NUT	16	26	072580	ADAP., -10ORM -10JICM STR.	1
10	L443011	ADAP., -10JICM BLKHD 90°	2	27	067761	ADAP., -10ORM -10JICM 90°	1
11	L69947	HOSE, -12 A10/DS12 42"	2	28	065415	ADAP., -10JICFS -10JICM 90°	1
12	P471299	ADAP., -12JICM BLKHD RUN TEE	2	29	L70088	HOSE, -8 A10/H10 20"	2
13	103900	TILT CYLINDER TUBE	2	30	L69449	TILT CYLINDER TUBE	1
14	072587	ADAP., -12ORM -12JICM STR	2	31	L69450	TILT CYLINDER TUBE	1

Boom Hydraulics

Tilt Cylinder Group - Four-Section High Boom

DL Series Dynalift



Tilt Cylinder Group - Four-Section High Boom

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	137542	ADAP., -10JICM BLKHD 90°	2	34		TWINLINE HOSE, -8 x 254"	1
02	L71033	OUTER REAR TUBE	1		210994	Note a and c - (Kit)	
03	L71034	OUTER REAR TUBE	1		210888	Note b	
04	L69832	DOUBLE TUBE CLAMP 0.62"	1	35	L71046	HOSE ASSEMBLY -8 x 290"	2
05	L69833	CLAMP TOP PLATE	1		L99134	HOSE SLEEVE	1
06	650545	5/16"-18 x 1-1/4" BOLT	1	36	L71035	OUTER FRONT TUBE	2
07	650663	1/4"-20 x 5/8" BOLT	5	37	L50056	NUT	1
08	L71042	VINYL CLAMP	10	38	L71747	CLAMP BOTTOM	1
09	L69832	DOUBLE TUBE CLAMP 0.62"	4	39	L71705	CLAMP TOP	1
10	L69833	CLAMP TOP PLATE	4	40	L71748	TOP PLATE	1
11	650545	5/16"-18 x 1-1/4" BOLT	4	41	L51035	5/16"-18 x 2" BOLT	1
12	L63717	TWIN TUBE CUSHION 0.50"	1	42	L71037	INNER TUBE	1
13	L63715	TWIN NARROW TOP PLATE	1	43	L71036	INNER TUBE	1
14	L50877	STUD 5/16"-18 x 2-1/4"	2	44	230-21555	ADAP., -8JICM BULKHEAD 90°	2
15	L10465	GREASE ZERK STR. 1/4"-28	2	45	064260	HLN INST 5/16" CZY	AR
16	L69601	BASE END PIVOT PIN	1	46	L69947	HOSE, -12 A10/DS12 42"	2
17	650818	3/8"-16 x 3" BOLT	1	47	P471299	ADAP., -12JICM BLKHD RUN TEE	2
18	064260	3/8" NYLON INSERT NUT	1	48	103900	TILT CYLINDER TUBE	2
19	L69144	TILT CYLINDER	1	49	072587	ADAP., -12ORM -12JICM STR	2
20	230-32364	PLUG, -4ORM	1				
21	L69727	ROD END PIVOT PIN	1				
22	L69724	PIVOT PIN CAP	1				
23	650486	5/16"-18 x 3/4" BOLT	2	a		Refer to Figure 1 (below). Use this part if the machine is equipped with the "Early Style" slide pad (found in the first intermediate boom - front section - lower).	
24	067761	ADAP., -10ORM -10JIC 90°	1				
25	065415	ADAP., -10JICF -10JICM 90°	1	b		Refer to Figure 1 (below). Use this part if the machine is equipped with the "Late Style" slide pad (found in the first intermediate boom - front section - lower).	
26	072580	ADAP., -10ROM -10JICM STR	1				
27	L71043	HOSE ASSEMBLY -8 x 20"	2				
28	L63715	TWIN NARROW TOP PLATE	1	c		Hose assembly is replaced by Kit P/N 210994, which includes: (2) L63720 Twin Hose Cushions, (2) 210888 Twinline Hoses, (1) 210759 Spacer Pad with Clamp, and (1) 210760 Slide Pad with Clamp.	
29	L71038	INNER NOSE TUBE	1				
30	L71039	INNER NOSE TUBE	1				
31	L71104	STUD 5/16"-18 x 4-1/2"	2				
32	L63719	TWIN WIDE TOP PLATE	1				
33		TWIN HOSE CUSHION	2				
	L71421	Note a - (0.69")					
	L63720	Note b - (0.88")					

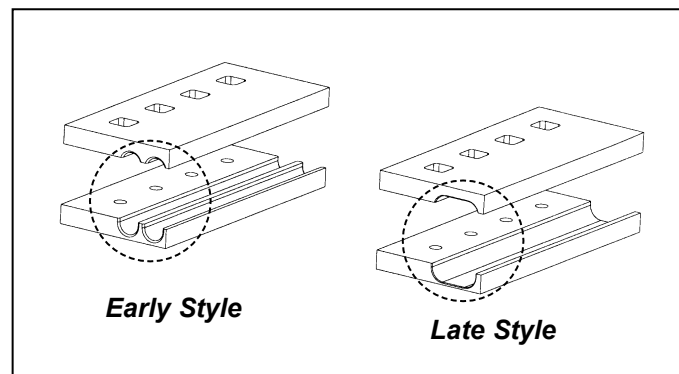
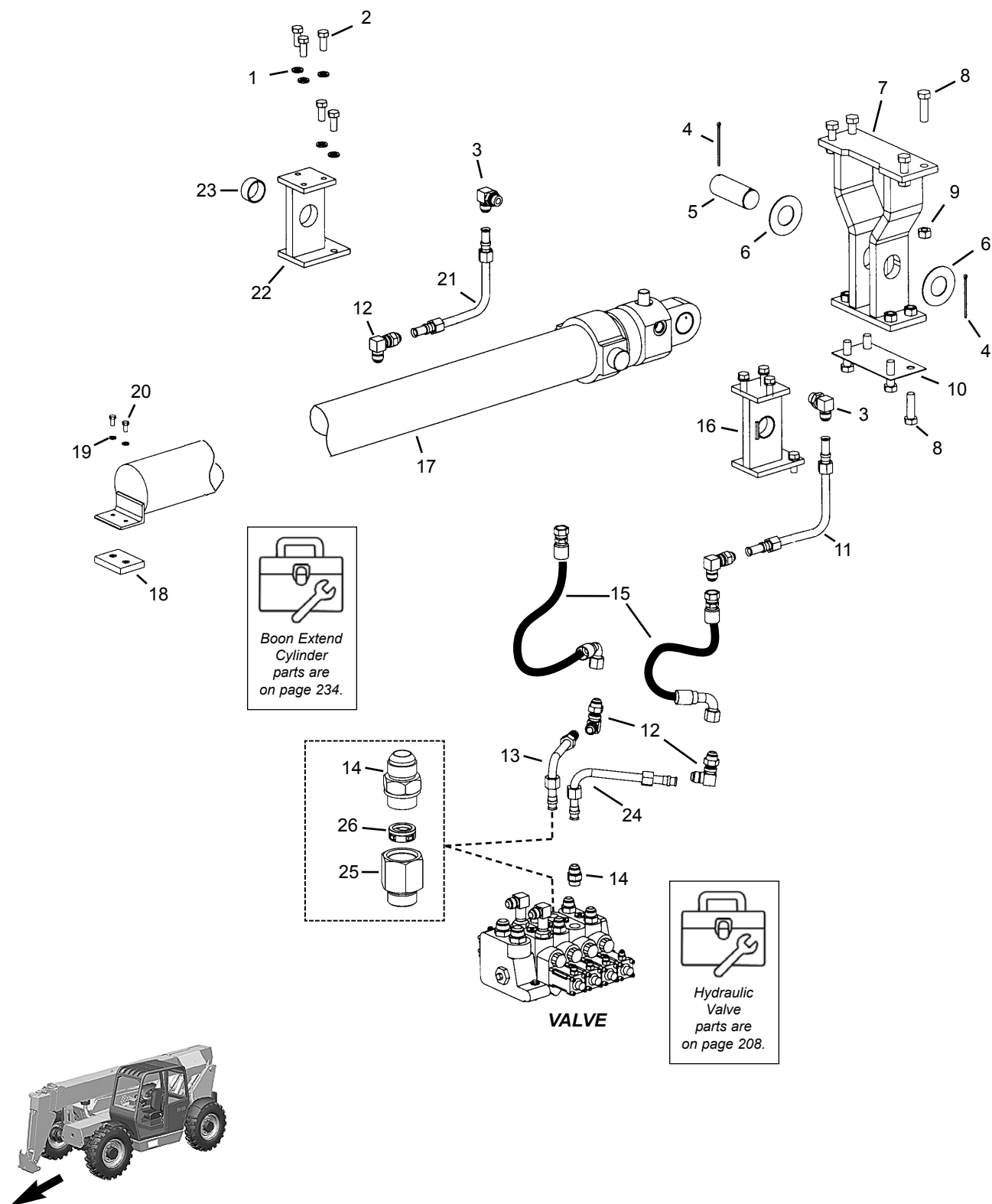


Figure 1

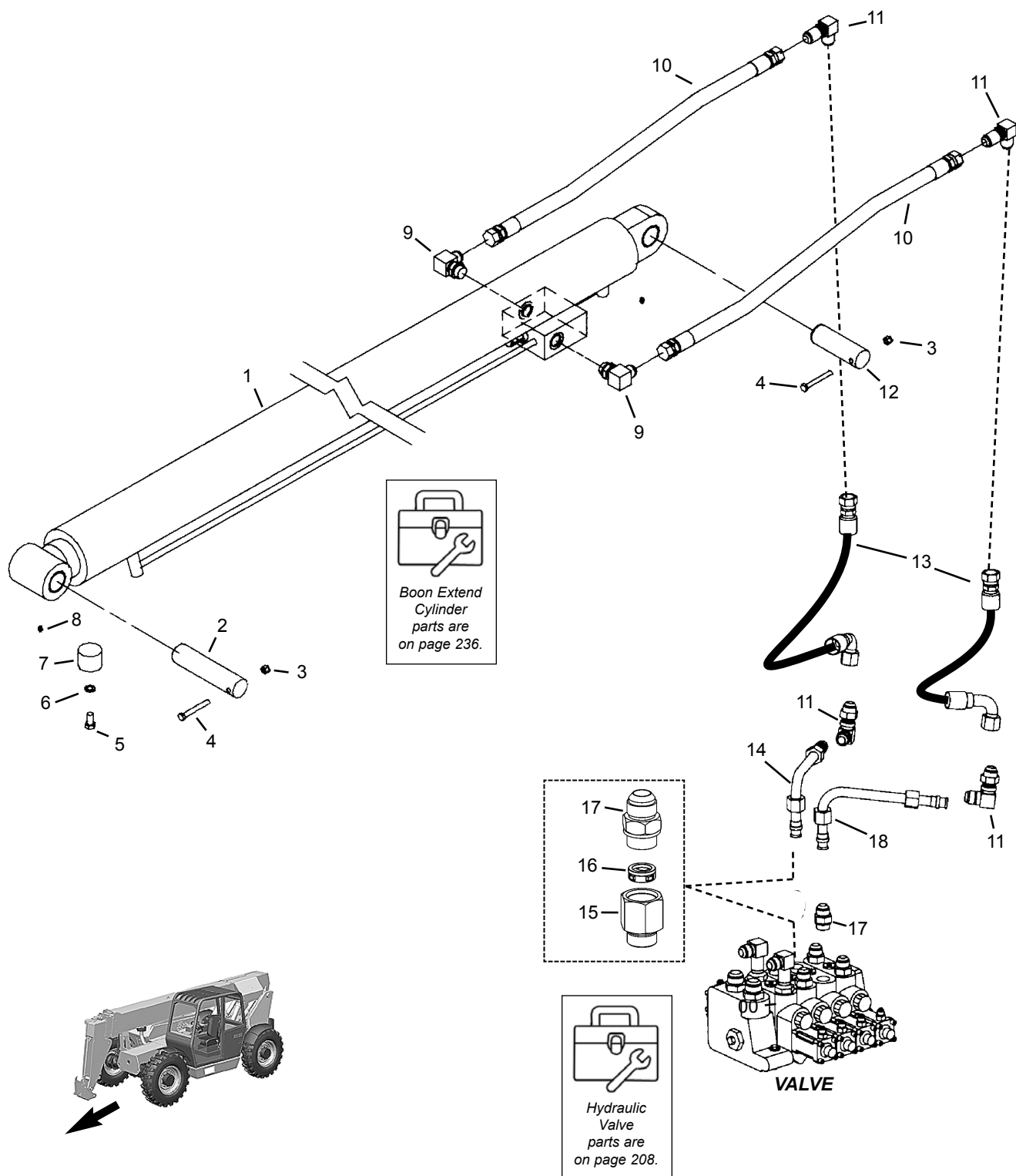


DL7/ DL9/ DL11/ DL12

Boom Hydraulics

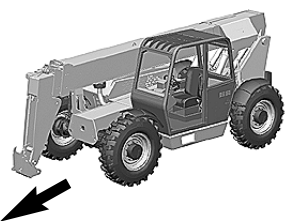
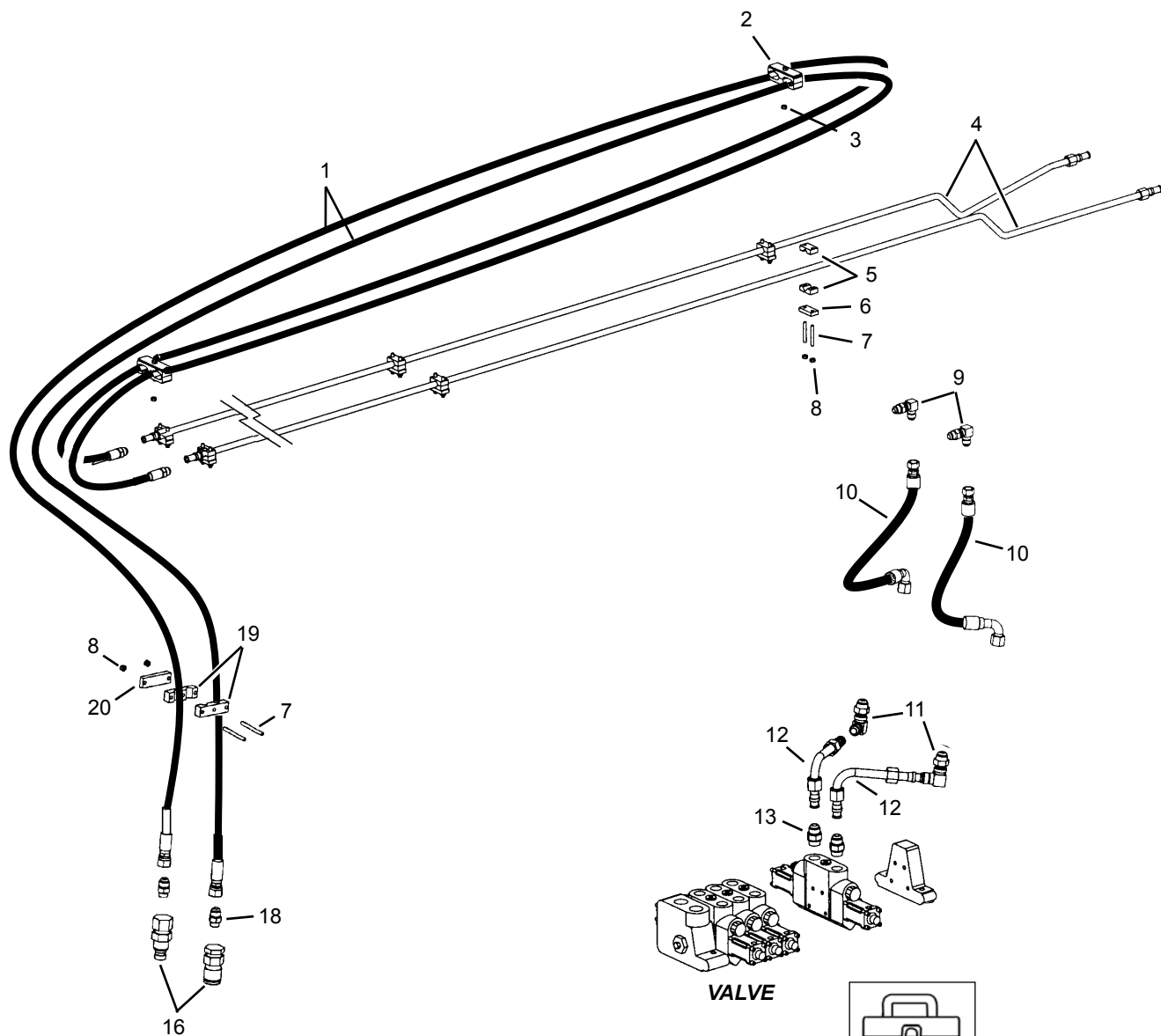
Boom Extend Cylinder Group - Three-Section High Boom

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	L50156	5/8" LOCK WASHER	10	16	L69485	TRUNNION MOUNT (<i>left</i>)	1
02	650532	5/8"-11x1-1/2" BOLT	10			(<i>includes item 23</i>)	
03	055005	ADAP., -12ORM -12JICM 90°	2	17		EXTEND CYLINDER	1
04	L50608	3/16"x4" COTTER PIN	2		L69136	40' High Boom	
05	L69994	EXTEND CYLINDER PIN	1		L69156	44' High Boom	
06	L400207	THRUST WASHER	2	18	L61709	SLIDE PAD	1
07	L69480	EXTEND CYL. MOUNT	1	19	654026	3/8" LOCK WASHER	2
08	L50956	3/4"-10x2-1/2" BOLT	8	20	L50251	3/8"-16x3/4" BOLT	2
09	079209	3/4"-10 NYLON INSERT NUT	8	21	L69447	EXTEND CYLINDER TUBE (<i>right</i>) .	1
10	L70420	TRUNNION SHIM	1	22	L69486	TRUNNION MOUNT (<i>right</i>)	1
11	L69448	EXTEND CYLINDER TUBE (<i>left</i>) . .	1			(<i>includes item 23</i>)	
12	230-32674	ADAP., -12JICM BLKHD 90°	4	23	L48805	BUSHING 2.0" ID x 1.0" LENGTH .	2
13	105164	BOOM EXTEND TUBE (<i>short</i>)	1	24	103901	BOOM EXTEND TUBE (<i>long</i>)	1
14	072587	ADAP., -12ORM -12JICM STR	2	25	105161	ADAP., PORT RESTRICTOR	1
15	L69946	HOSE, -12 A12/DS12 42"	2	26	L99903	RESTRICTOR, WORK PORT	1



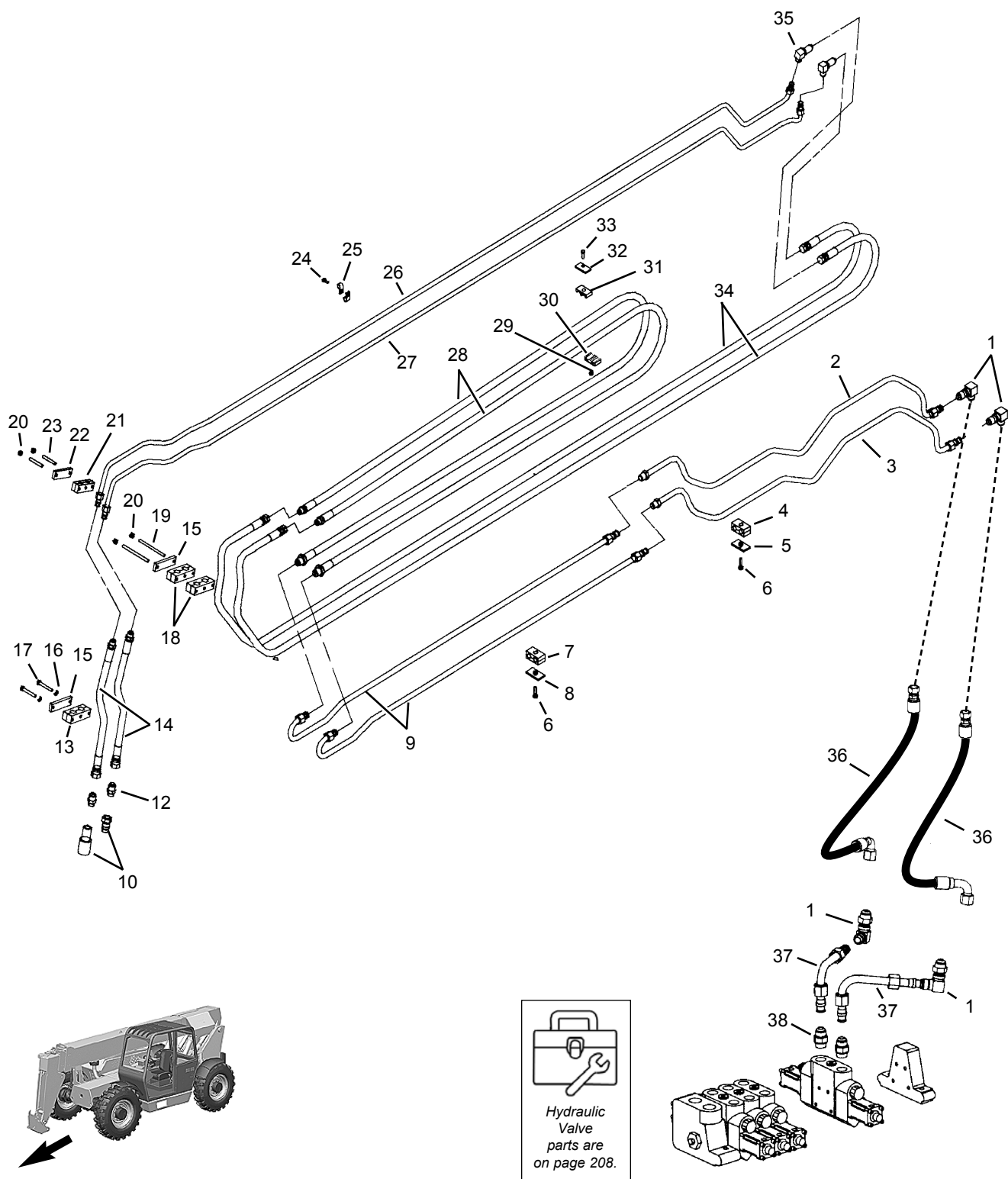
DL7/ DL9/ DL11/ DL12**Boom Hydraulics*****Boom Extend Cylinder Group - Four-Section High Boom***

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	L71023	EXTEND CYLINDER.....	1	10	104904	HOSE ASY. -12X36.....	2
02	L64559	ROD PIN, 1.75 DX7.25.....	1	11	230-32674	ADAP., -12JICM BULKHEAD 90° ..	4
04	650818	3/8"-16x3" BOLT	2	12	L70964	PIN (<i>base end</i>)	1
03	L520005	3/8"-16 NYLON INSERT NUT.....	2	13	L69946	HOSE, -12 A12/DS12 42"	2
05	650494	1/2"-13"x1" BOLT	1	14	105164	BOOM EXTEND TUBE (<i>short</i>)	1
06	654030	1/2" LOCKWASHER	1	15	105161	ADAP., PORT RESTRICTOR	1
07	P272700	ISOLATOR.....	1	16	L99903	RESTRICTOR, WORK PORT.....	1
08	L10465	GREASE ZERK STR. 1/4"	2	17	072587	ADAP., -12ORM -12JICM STR.....	2
09	055005	ADAP., -12ORM -12JIC 90°.....	2	18	103901	BOOM EXTEND TUBE (<i>long</i>).....	1



DL7/ DL9/ DL11/ DL12**Boom Hydraulics*****Boom Auxiliary Hydraulics Group - Three-Section High Boom***

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01		HOSE, -8 H10/A10	2	09	L443011	ADAP., -10JICM BLKHD 90°	2
	L70107	40' High Boom		10	L69947	HOSE, -12 A10/DS12 42"	2
	L69945	44' High Boom		11	230-32674	ADAP., -12JICM BLKHD 90°	2
	L500784	HOSE SLEEVE	1	12	103902	TUBE, AUXILIARY SECTION	2
02	L79167	HOSE CLAMP ASSEMBLY	2	13	072587	ADAP., -12ORM -12JICM STR	2
03	L50056	5/16"-18 FLARE NUT	2	14	054994	ADAP., -6ORM -6JICM	2
04	L69451	AUXILIARY TUBE (bottom)	2	16	L65273	COUPLER SET	1
05	L67341	TUBE CUSHION, SINGLE 5/8"	12	18	230-30569	ADAP., -8ORM -10JICM STR	2
06	L67446	TUBE CUSHION TOP PLATE	6	19	L63720	TUBE CUSHION, DBL 3/4" DIA	4
07	L50877	5/16"-18x2-1/4" STUD	16	20	L63719	TOP PLATE -TWIN WIDE	1
08	L520004	5/16"-18 NYLON INSERT NUT	16				



Boom Auxiliary Hydraulics Group - Four-Section High Boom

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	137542	ADAP., -10JICM BLKHD 90°	4		L99134	HOSE SLEEVE	1
02	L71031	REAR AUXILIARY HYD. TUBE	1	29	L50056	NUT	1
03	L71032	REAR AUXILIARY HYD. TUBE	1	30	L71747	CLAMP, BOTTOM	1
04	L69832	DOUBLE TUBE CLAMP	1	31	L71705	CLAMP, TOP	1
05	L69833	CLAMP TOP PLATE	1	32	L71748	TOP PLATE	1
06	650545	5/16"-18 x 1-1/4" BOLT	2	33	L51035	5/16"-18 x 2" BOLT	1
07	L69832	DOUBLE TUBE CLAMP	1	34		TWINLINE HOSE, -8 x 248"	1
08	L69833	CLAMP TOP PLATE	1		210993	<i>Note a and c - (Kit)</i>	
09	L71035	OUTER FRONT AUX. TUBE	2		210887	<i>Note b</i>	
10	L65273	COUPLER SET	1	35	230-21555	ADAP., -8JICM BLKHD 90°	2
12	230-30569	ADAP., -8ORM -10JICM STR	2	36	L69947	HOSE, -12 A10/DS12 42"	2
13	L63720	TWIN HOSE CUSHION 0.88"	AR	37	103902	TUBE, AUXILIARY SECTION	2
14	L71043	HOSE ASSEMBLY -8 x 20"	2	38	072587	ADAP., -12ORM -12JICM STR	2
15	L63719	TWIN WIDE TOP PLATE	2				
16	654024	LOCKWASHER 5/16"	2				
17	650725	5/16"-18 x 2-1/4" BOLT	2				
18		TWIN HOSE CUSHION	2				
	L71421	<i>Note a - (0.69")</i>					
	L63720	<i>Note b - (0.88")</i>					
19	L71104	5/16"-18 x 4-1/2" STUD	2				
20	L520004	5/16" NYLON INSERT NUT	4				
21	L63717	TWIN TUBE CUSHION 0.50"	1				
22	L63715	NARROW TWIN TOP PLATE	1				
23	L50877	5/16"-18" x 2-1/4" STUD	2				
24	650663	1/4"-20" x 5/8" BOLT	5				
25	L71042	VINYL CLAMP	10				
26	L71040	INNER TUBE	1				
27	L71041	INNER TUBE	1				
28	L71046	HOSE ASSEMBLY -8 x 290"	2				

a Refer to Figure 1 (below). Use this part if the machine is equipped with the "Early Style" slide pad (found in the first intermediate boom - front section - lower).

b Refer to Figure 1 (below). Use this part if the machine is equipped with the "Late Style" slide pad (found in the first intermediate boom - front section - lower).

c Hose assembly is replaced by Kit P/N 210993, which includes: (2) L63720 Twin Hose Cushions, (2) 210887 Twinline Hoses, (1) 210759 Spacer Pad with Clamp, and (1) 210760 Slide Pad with Clamp.

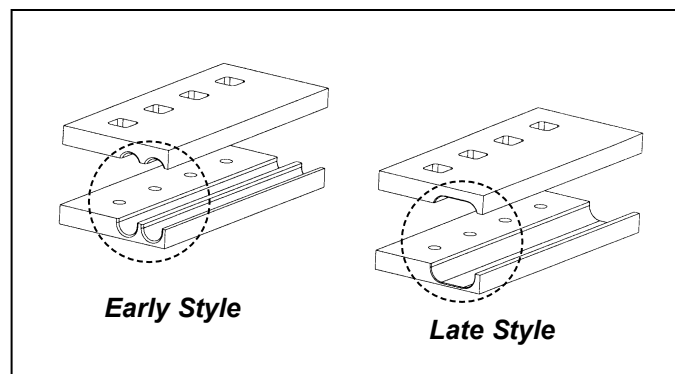
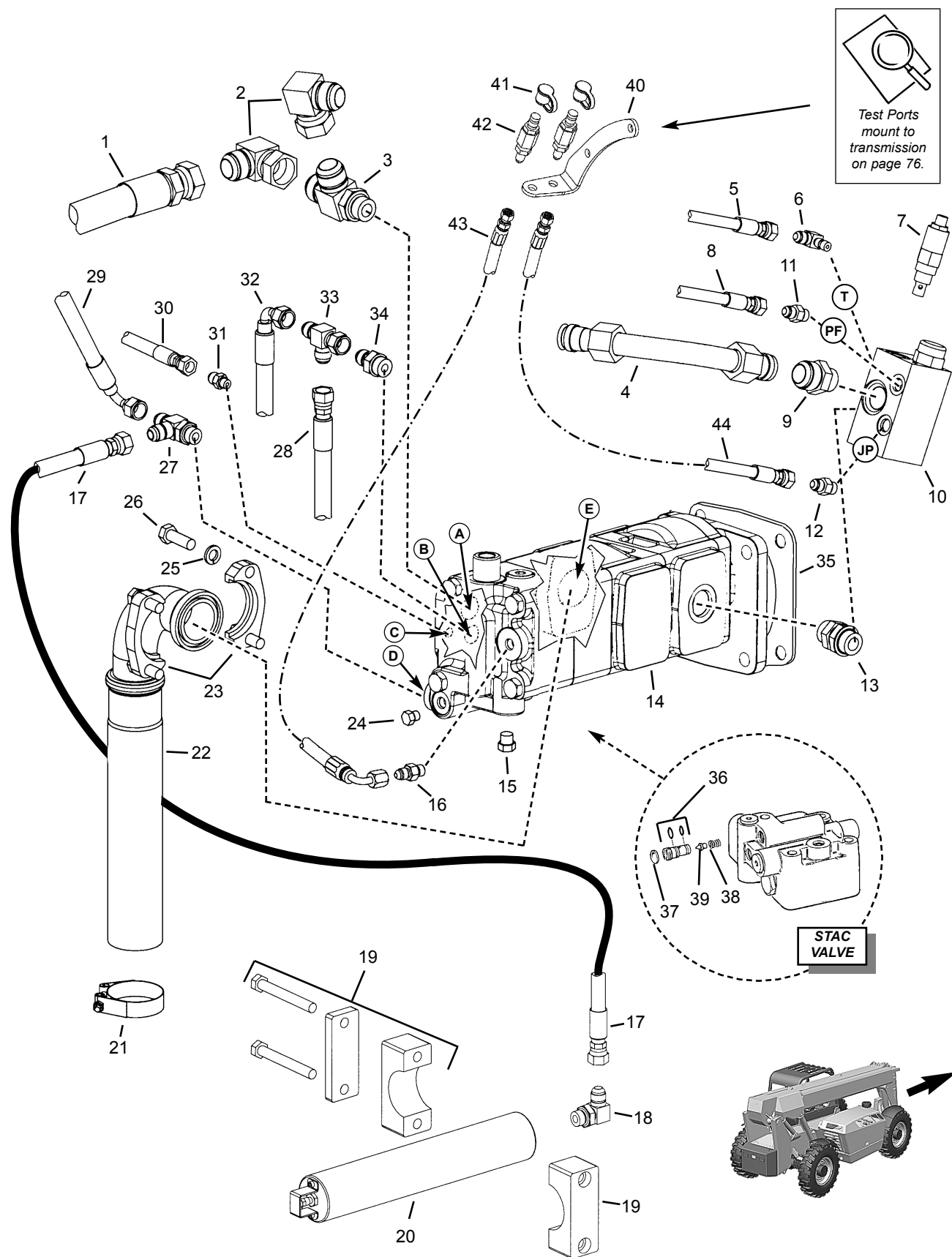


Figure 1

Hydraulics

Hydraulic Pump, Accumulator, and Hoses

DL Series Dynalift

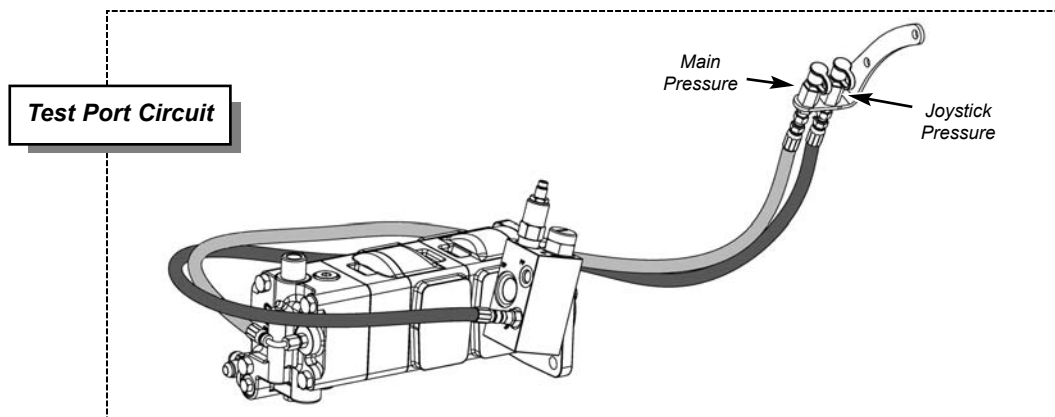


Hydraulic Pump, Accumulator, and Hoses

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	105166	HOSE, -16 A16/A16 60"	1	24	230-32364	PLUG -4ORM	1
02	088117	ADAP., -16JICFS -16JICM 90°	2	25	654030	1/2" LOCK WASHER.	4
03	L443004	ADAP., -12ORM -16JICM R-TEE	1	26	P47159	1/2"x1-1/2" GR8 BOLT.	4
04 ^a	L69499	TUBE, PUMP OUT	1	27	114742	ADAP., -8ORM -8JICM R-TEE	1
05	L69920	HOSE, -4 A6/A6 40"	1	28	L69932	HOSE, -6 A6/A8 46"	1
06	137784	ADAP., -4ORM -6JICM 90°	1	29	L69931	HOSE, -6 A6/DS8 20"	1
07	L99927	RELIEF VALVE 350 <i>psi</i>	1	30 ^b	L69903	HOSE, -4, A6/DS6 17"	1
08	L70493	HOSE, -4 A6/A6 28"	1	31	129124	ADAP., -4ORM -6JICM STR	1
09	054818	ADAP., -12ORM -16JICM STR	1	32	L69934	HOSE, -6 A8/DS8 88"	1
10	L70229	FLOW DIVIDER.	1	33	076143	ADAP., -8JICFS -8JICM R-TEE.	1
11	054994	ADAP., -6ORM -6JICM STR	1	34	089099	ADAP., -10ORM -8JICM STR	1
12	230-18127	ST MJ04-MORB06	1	35	L70589	PUMP GASKET.	1
13	L51972	ADAP., -12 ORM -12ORM STR.	1	36	L500348	CORE PLUG POPET ASY.	1
14	L69571	HYD. PUMP W/STAC VALVE	1	37	NSS	CORE PLUG CAP.	1
15	122778	PLUG -6ORM	1	38	NSS	POPET, SPRING.	1
16	230-32195	ST MJ04-MORB04	1	39	NSS	POPET.	1
17	L70267	HOSE, -6 A8/A8 17"	1	40	50380392	BRACKET, TEST PORTS	1
18	054816	ADAP., -8ORM -8JICM 90°	1	41	L62840	DUST CAP.	2
19	L70188	CLAMP KIT 2.37" ID	1	42	L62834	TEST PORT (<i>bulkhead</i>)	2
20	L70033	ACCUMULATOR, PISTON TYPE	1	43	50380418	HOSE, -4 A4/DS4 48"	1
		(315 <i>psi</i>)		44	P471500	HOSE, -4 A4/A4 60"	1
21	L70465	2-1/2" T-BOLT BAND CLAMP	1				
22	L69543	HOSE, -32 MS32/NONE 16"	1				
23	L71271	SPLIT FLANGE KIT -32	1				
		(includes items 25, 26, and o-rings)					

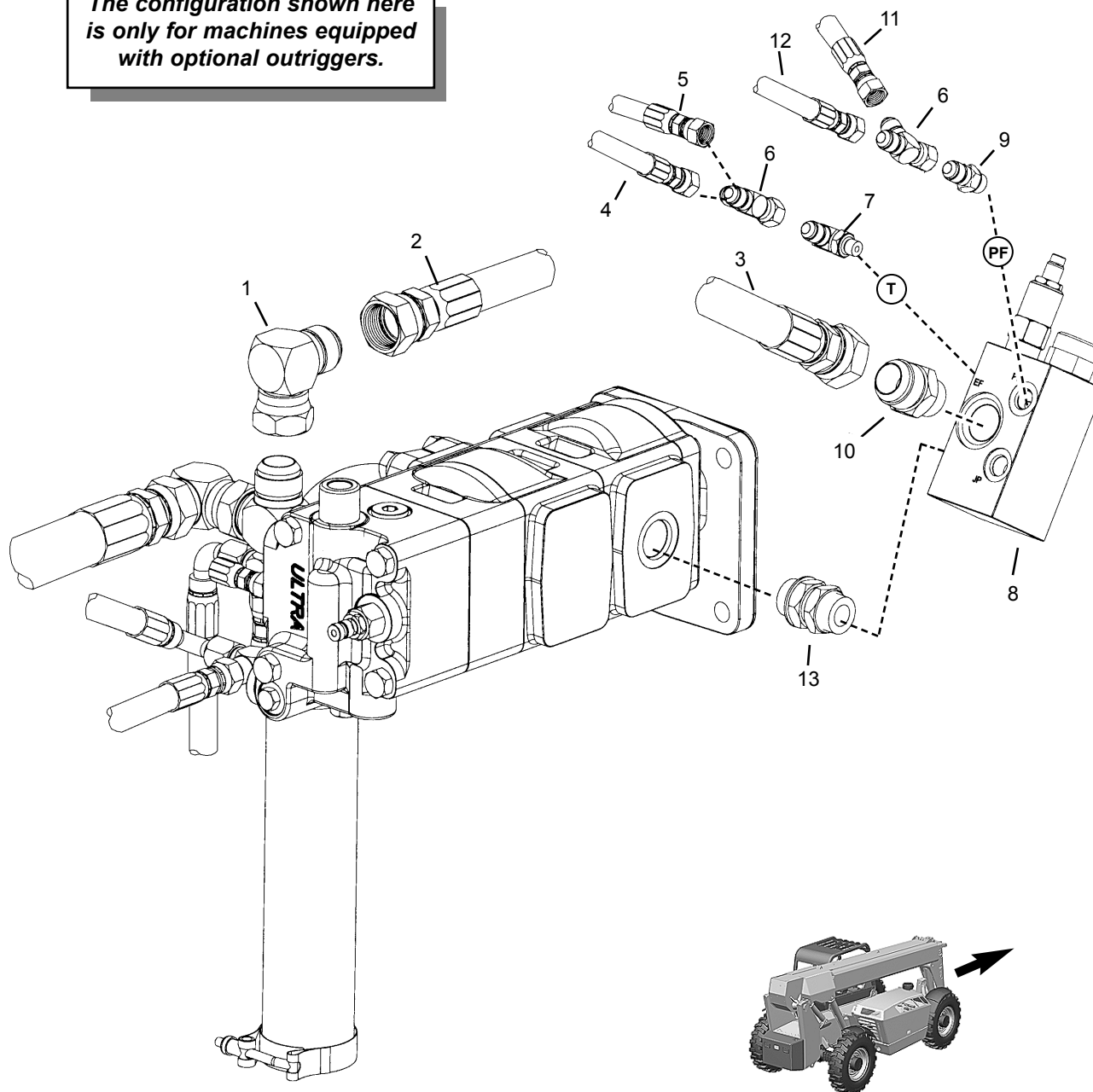
a Not used when equipped with outriggers.

b Hose has a 90° degree end that connects directly to item #31.

***Hose Locator***

Ref No.	From Port	To Port
01	HYDRAULIC PUMP "A"	MAIN VALVE "IN"
05	FLOW DIVIDER "T"	HYDRAULIC TANK RETURN MANIFOLD
08	FLOW DIVIDER "PF"	SAHR VALVE "P1"
17	HYDRAULIC PUMP "D"	ACCUMULATOR
22	HYDRAULIC PUMP "E"	HYDRAULIC TANK "SUCTION"
28	HYDRAULIC PUMP "B"	LEVEL VALVE "P"
29	HYDRAULIC PUMP "D"	SAHR VALVE "A1"
30	HYDRAULIC PUMP "C"	LEVEL VALVE "LSP"
32	HYDRAULIC PUMP "B"	STEER MOTOR "P" (IN CAB)

The configuration shown here is only for machines equipped with optional outriggers.

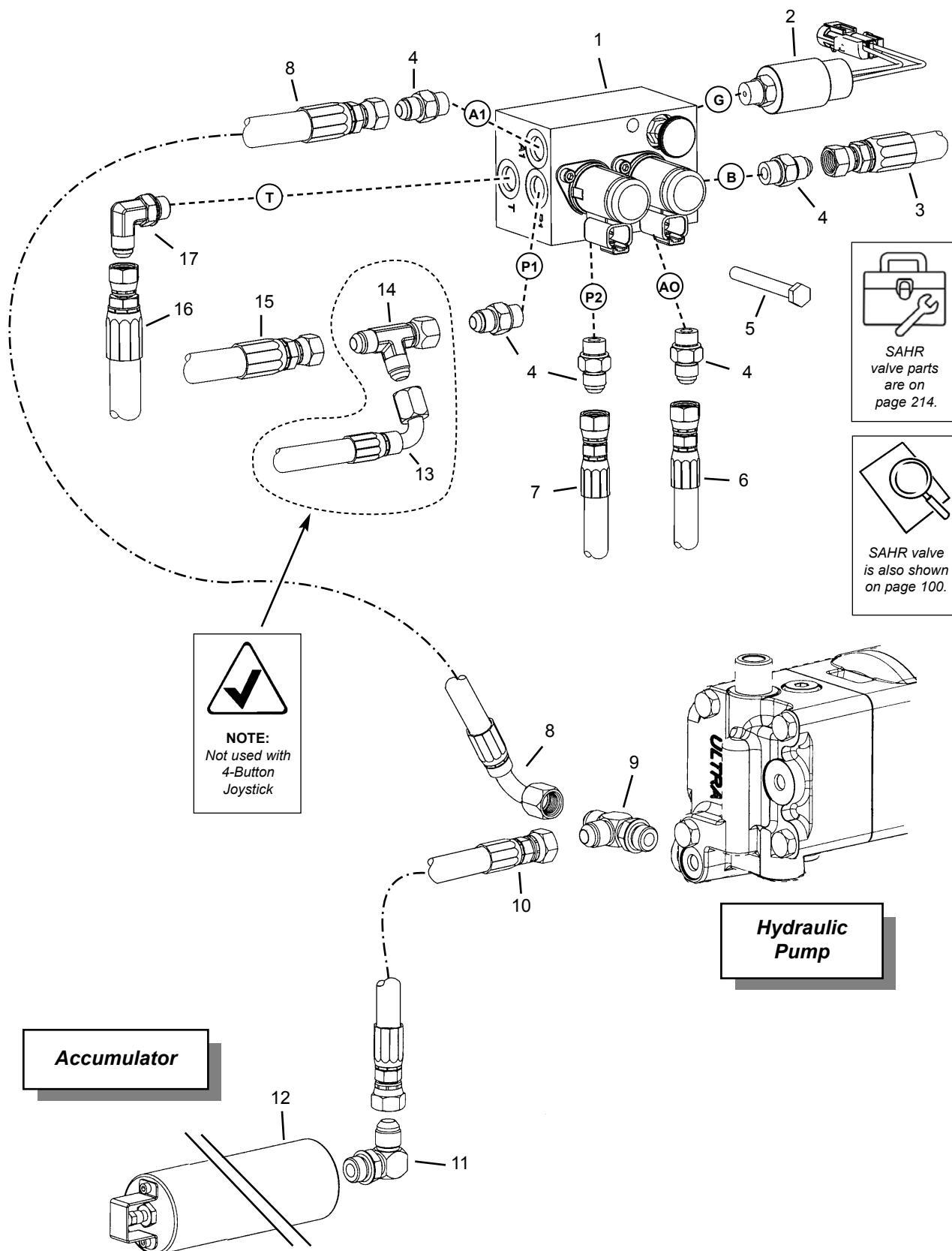


Hydraulic Pump and Hoses- Outtrigger

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	088117	ADAP., -16JICFS -16JICM 90°	2	08	L70229	FLOW DIVIDER.	1
02	L70693	HOSE, -12 A12/A16 61"	1	09	054994	ADAP., -6ORM -6JICM STR	1
03	L70694	HOSE, -12 A12/A16 76"	1	10	054818	ADAP., -12ORM -16JICM STR	1
04	L69920	HOSE, -4 A6/A6 40"	1	11	L70690	HOSE, -4 A6/DS6 70"	1
05	L70690	HOSE, -4 A6/DS6 70"	1	12	L70493	HOSE, -4 A6/A6 28"	1
06	072806	ADAP., -6 SWIVEL TEE	2	13	L51972	ADAP., -12 ORM -12ORM STR. . . .	1
07	137784	ADAP., -4ORM -6JICM 90°	1				

Hose Locator

Ref No.	From Port	To Port
02	HYDRAULIC PUMP	V20 VALVE "PB"
03	FLOW DIVIDER	V20 VALVE "IN"
04	FLOW DIVIDER "T"	HYDRAULIC TANK RETURN MANIFOLD
05	FLOW DIVIDER "T" SWIVEL	OUTRIGGER PILOT MANIFOLD "T"
11	FLOW DIVIDER "PF" SWIVEL	OUTRIGGER PILOT MANIFOLD "P"
12	FLOW DIVIDER "PF"	SAHR VALVE "P1"



SAHR and Accumulator (Standard Configuration)

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	50380061	SAHR / ACCUM CHARGE VALVE . 1 (includes built-in PWP valve)	1	14	072806	TEE MJ06-FJ06-MJ06.	1
02	L70008	BRAKE PRESSURE SWITCH	1	15	L69931	HOSE, -6 A6/DS8 20"	1
03	210601	HOSE, -6 A6/A6 85"	1	16	101814	HOSE, -6 A6/A6 25"	1
04	054994	ADAP., -6ORM -6JICM STR	4	17	068938	90 MJ06-MAORB06	1
05	650784	5/16-18X2-3/4" BOLT	2	a Used on machines equipped with the tri-function (4-button) joystick .			
06	L69926	HOSE, -4 A6/DS6 100"	1				
07	L69930	HOSE, -6 A6/DS8 46"	1	b Used on machines equipped with the dual-function (2-button) joystick .			
08	L69931	HOSE, -6 A6/DS8 20"	1				
09	114742	ADAP., -8ORM -8JICM R-TEE	1				
10	L70267	HOSE, -6 A8/A8 17"	1				
11	054816	ADAP., -8ORM -8JICM 90°	1				
12	L70033	ACCUMULATOR, PISTON TYPE .. (315 psi) Pre-charged	1				
13 ^a	L71360	HOSE, -4 A6/DS6 98"	1				



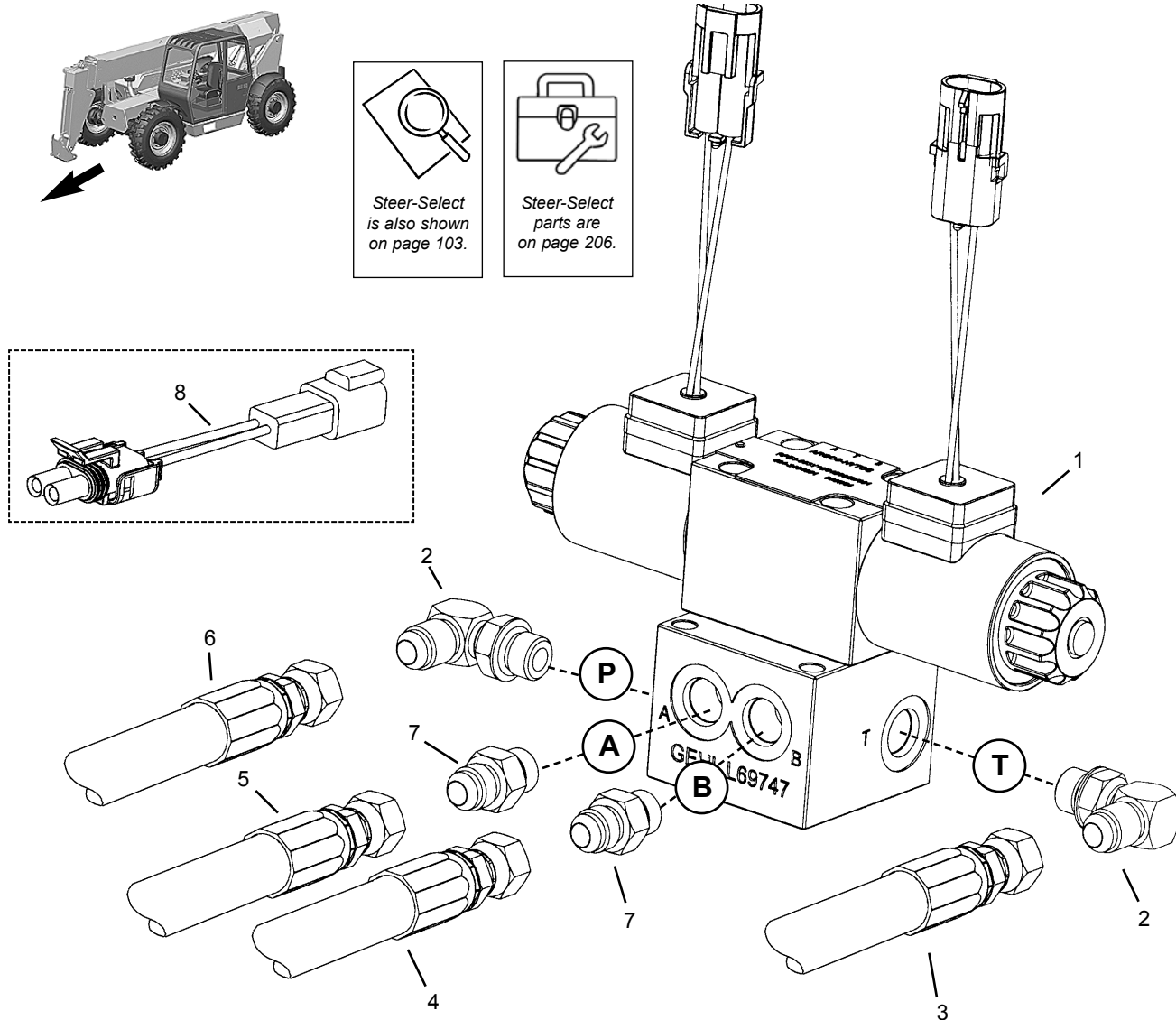
NOTE: If the machine is also equipped with the Radio Remote System option, hose (ref. #6) is removed from the "AO" port on the SAHR valve and connected to a hose from the radio remote manifold—an additional hose (with a 90° hose end) connects to the "AO" port.

**Hose Locator**

Ref No.	From Port	To Port
03	SAHR "B"	FRONT AXLE (PARK BRAKE CIRCUIT)
06	SAHR "AO"	BRAKE VALVE "P" (IN CAB)
07	SAHR "P2"	JOYSTICK "P"
08	SAHR "A1"	HYDRAULIC PUMP "BOTTOM TEE"
10	HYDRAULIC PUMP "D"	ACCUMULATOR
13 ^c	SAHR "P1" (BOTTOM TEE)	^d PILOT MANIFOLD "P"
15	SAHR "P1"	FLOW DIVIDER "PF"
16	SAHR "T"	HYDRAULIC TANK RETURN MANIFOLD

^c Used with 4-button joystick.

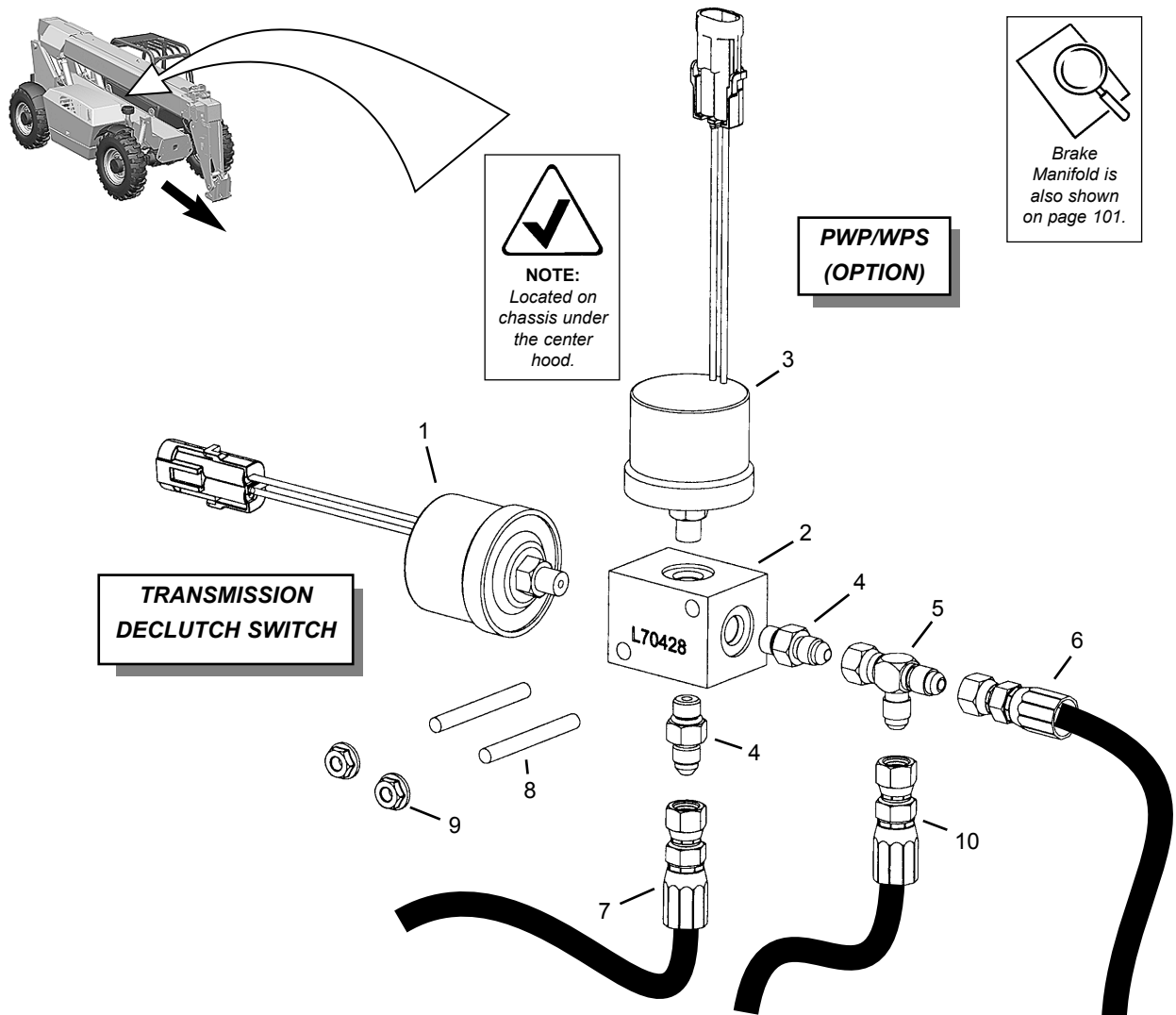
^d Use "P" port on upper pilot manifold when unit is equipped with auxiliary hydraulics.



Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	L69747	STEER-SELECT VALVE	1	04	101319	HOSE, -6 A6/NS6 40"	1
	651089	1/4-20X3" BOLT	2	05	101319	HOSE, -6 A6/NS6 40"	1
	L50051	1/4"-20 NUT	2	06	L69935	HOSE, -6 A8/A6 108"	1
02	068938	ADAP., -6ORM -6JICM 90°	2	07	054994	ADAP., -6ORM -6JICM STR	2
03	210602	HOSE, -6 A6/A8 125"	1	08	50380338	WIRE HARNESS, SOLENOID	2

Hose Locator

Ref No.	From Port	To Port
03	STEER SELECT VALVE "T"	FRONT AXLE STEER CYLINDER (LEFT PORT)
04	STEER SELECT VALVE "B"	STEER CYLINDER (REAR AXLE-LEFT SIDE)
05	STEER SELECT VALVE "A"	STEER CYLINDER (REAR AXLE-RIGHT SIDE)
06	STEER SELECT VALVE "P"	STEER MOTOR "L" (IN CAB)



Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	L70415	PRESSURE SWITCH	1	07	L69929	HOSE, -4 A6/A4 102"	1
02	L70428	BRAKE LINES MANIFOLD	1	08	L50051	NUT, 1/4" FLANGE LOCK.....	2
03 ^a	L70415	PRESSURE SWITCH	1	09	L50876	STUD, 1/4"x2-1/4"	2
03 ^b	230-32364	ADAP., -4ORM PLUG (<i>not shown</i>) .	1	10	210600	HOSE, -4 A4/16 58".....	1
04	230-32195	ADAP., -4ORM -4JICM STR	2				
05	230-32694	ADAP., -4 SWIVEL TEE	1				
06	102840	HOSE, -4 A4/A6 90"	1				

a When equipped with PWP/WPS
b When not equipped with PWP/WPS

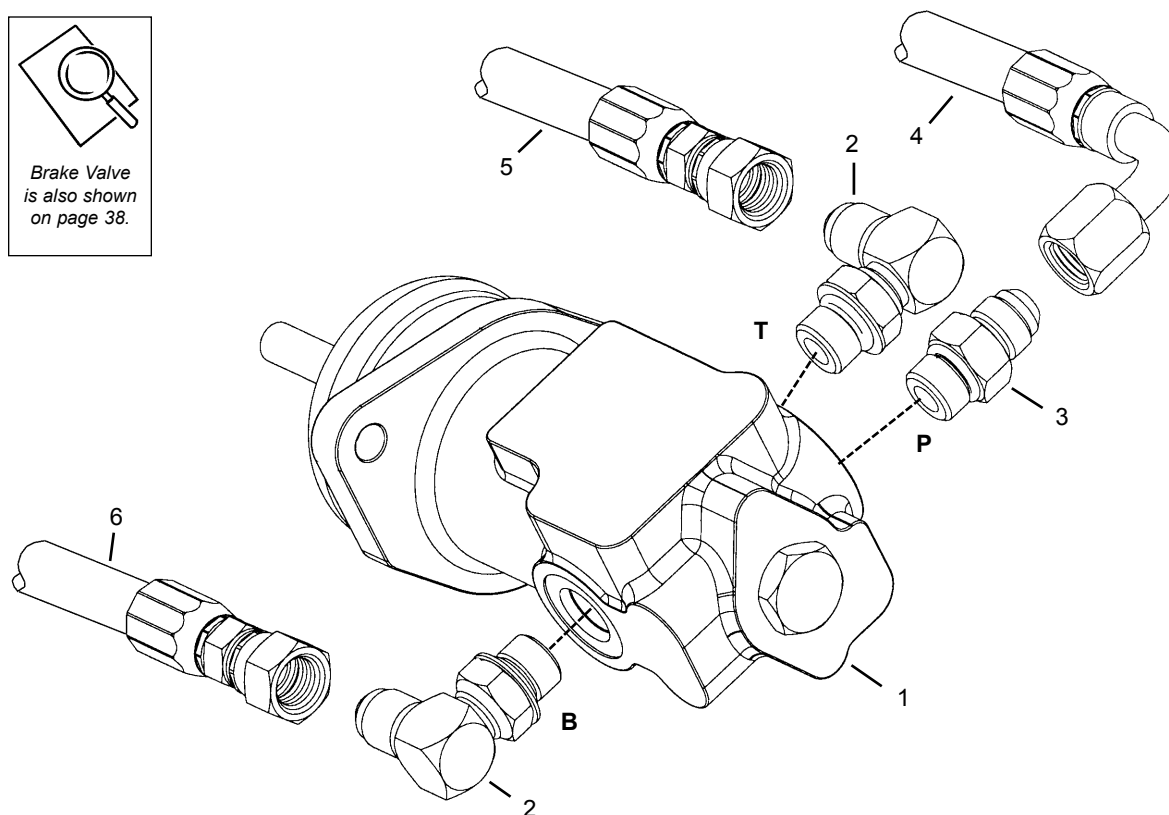
Hose Locator

Ref No.	From Port	To Port
06	BRAKE MANIFOLD (SIDE)	FRONT AXLE (SERVICE BRAKES)
07	BRAKE MANIFOLD (LOWER)	BRAKE VALVE "B" (IN CAB)
10	BRAKE MANIFOLD TEE	REAR AXLE (SERVICE BRAKES)

Hydraulics

Brake Valve and Hoses

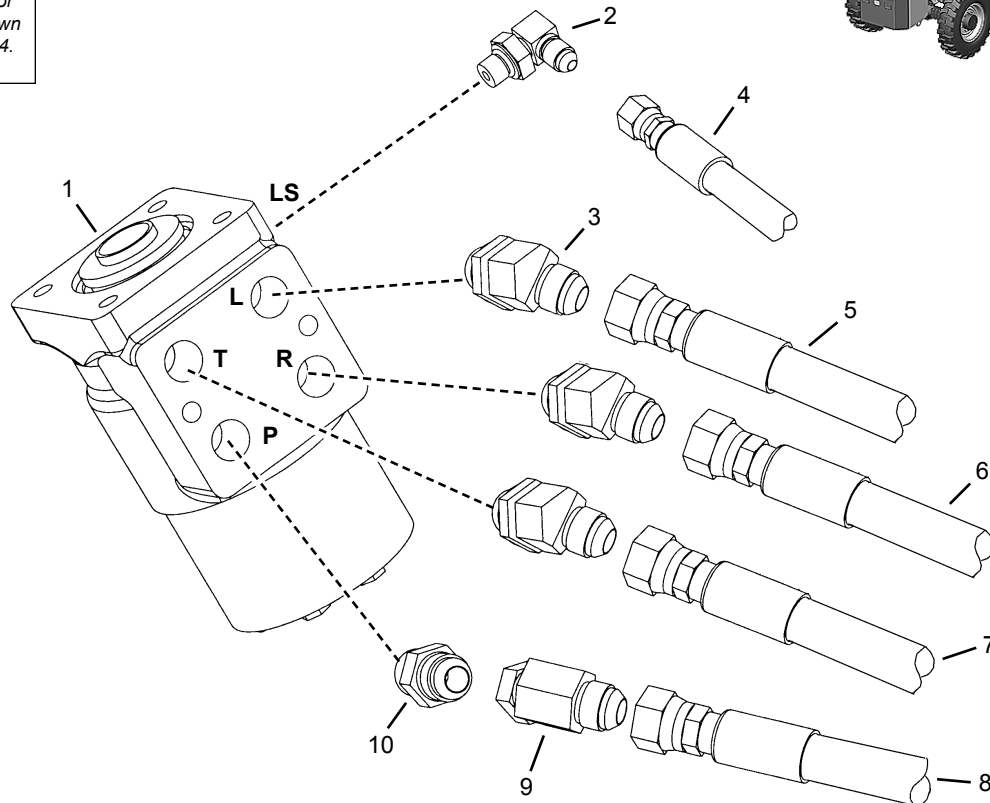
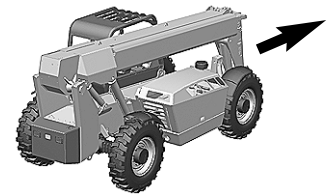
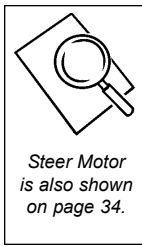
DL Series Dynalift



Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	L69572	BRAKE MODULATING VALVE	1	04	L69926	HOSE, -4 A6/DS6 100"	1
02	068938	ADAP., -6ORM -6JICM 90°	2	05	L69927	HOSE, -4 A6/A6 81"	1
03	054994	ADAP., -6ORM -6JICM STR	1	06	L69929	HOSE, -4 A6/A4 102"	1

Hose Locator

Ref No.	From Port	To Port
04	BRAKE VALVE "P"	SAHR VALVE "AO"
05	BRAKE VALVE "T"	HYDRAULIC TANK RETURN MANIFOLD
06	BRAKE VALVE "B"	BRAKE MANIFOLD (BOTTOM PORT)



Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01 ^a	101881	STEER MOTOR ASY.	1	07	L69933	HOSE, -6 A8/A6 60"	1
	L500968	SEAL KIT (<i>not shown</i>)	1	08	L69934	HOSE, -6 A8/DS8 88"	1
02	095601	ADAP., -4ORM -4JICM 90°	1	09	069194	ADAP., -8JICFS -8JICM SWVL	1
03	076880	ADAP., -8ORM -8JICM 45°	3	10	L64524	CHECK VALVE	1
04	L69925	HOSE, -4 A4/A6 92"	1				
05	L69935	HOSE, -6 A8/A6 108"	1				
06	210603	HOSE, -6 A8/A8 108"	1				

a Field replacement of parts other than seals is not recommended.

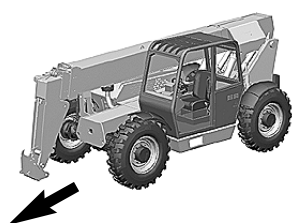
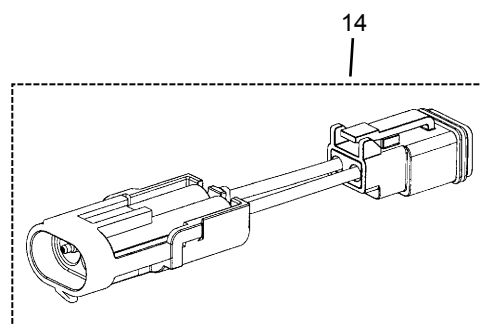
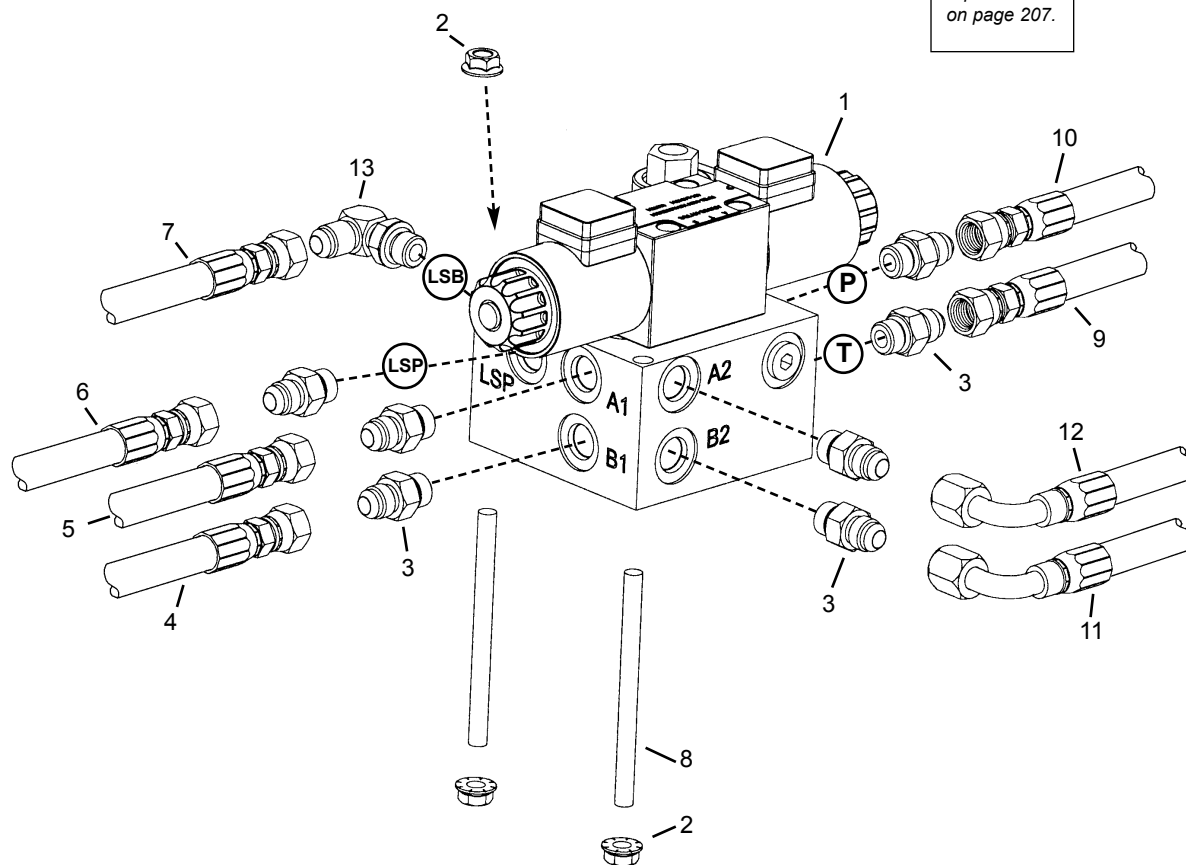
HOSE LOCATOR

04	STEER MOTOR "LS" (IN CAB)
05	STEER MOTOR "L" (IN CAB)
06	STEER MOTOR "R" (IN CAB)
07	STEER MOTOR "T" (IN CAB)
08	STEER MOTOR "P" (IN CAB)

LEVEL VALVE "LSB"
STEER SELECT VALVE "P"
FRONT AXLE STEER CYLINDER (RIGHT PORT)
HYDRAULIC TANK RETURN MANIFOLD
HYDRAULIC PUMP (<i>Refer to item #32 on hydraulic pump</i>)



Level valve
parts are
on page 207.

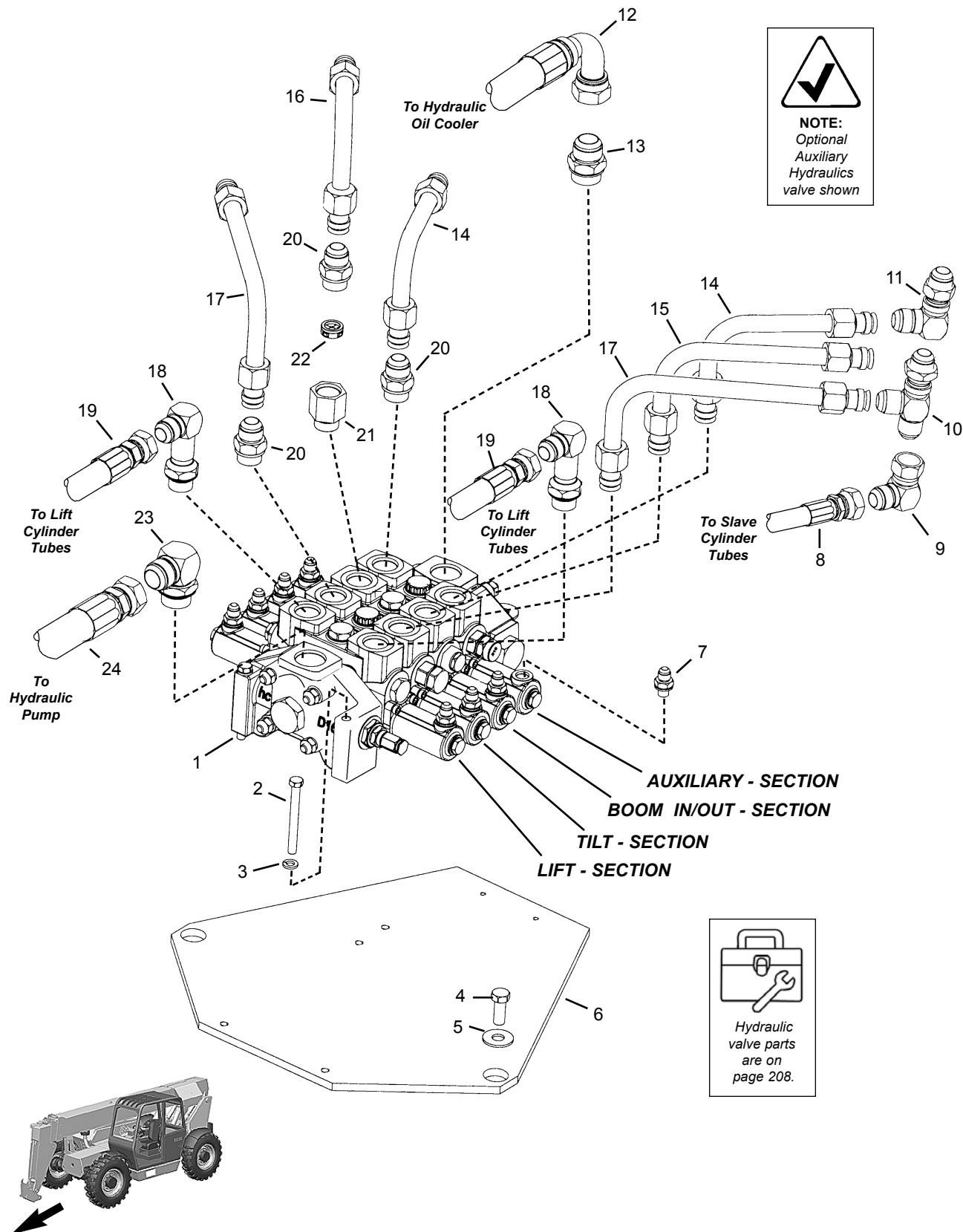


Frame Level Valve and Hoses

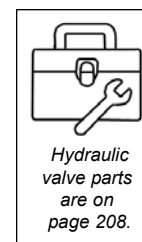
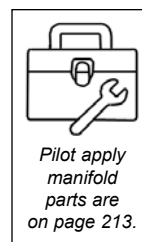
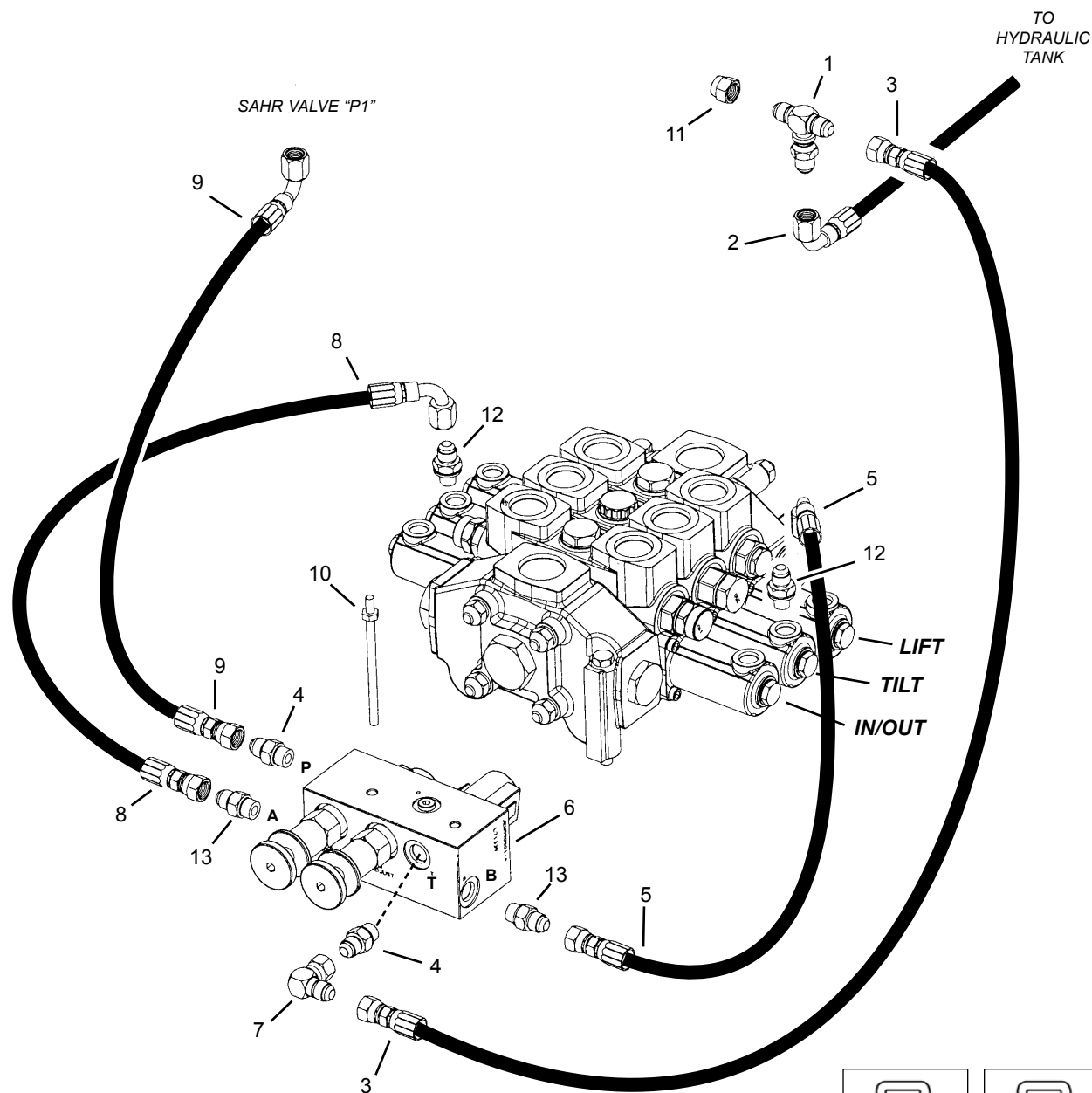
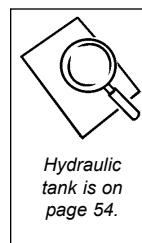
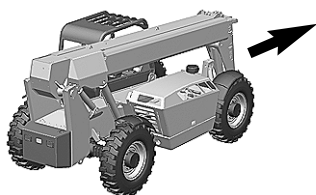
Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	211238	LEVEL VALVE, KIT 1 (Includes level valve and three wire harness adapters—item 14; does not include hoses, fittings, or hardware.)		06	L69903	HOSE, -4, A6/DS6 17" 1	
				07	L69925	HOSE, -4 A6/DS6 92" 1	
				08	L50679	5/16"-18x4" STUD 2	
				09	L69922	HOSE, -6 A6/A6 50" 1	
				10	L69932	HOSE, -6 A6/A8 46" 1	
02	L50056	5/16"-18 NUT AR		11	L70084	HOSE, -4 A6/DS6 65" 1	
03	054994	ADAP., -6ORM -6JICM STR 7		12	L70084	HOSE, -4 A6/DS6 65" 1	
04	L69921	HOSE, -4 A6/A6 126" 1		13	068938	ADAP., -6ORM -6JICM 90° 1	
05	L69921	HOSE, -4 A6/A6 126" 1		14	211161	WIRE HARNESS ADAPTER 3	

Hose Locator

Ref No.	From Port	To Port
04	LEVEL VALVE "A1"	LEVEL CYLINDER (OUTSIDE FITTING)
05	LEVEL VALVE "B1"	LEVEL CYLINDER (CAB SIDE FITTING)
06	LEVEL VALVE "LSP"	HYDRAULIC PUMP "C" (Refer to HYD. PUMP)
07	LEVEL VALVE "LSB"	STEER MOTOR "LS" (IN CAB)
09	LEVEL VALVE "T"	HYDRAULIC TANK RETURN MANIFOLD
10	LEVEL VALVE "P"	HYDRAULIC PUMP "B" (Refer to HYD. PUMP)
11	LEVEL VALVE "B2"	STABILIZER CYLINDER MANIFOLD "M" (REAR)
12	LEVEL VALVE "A2"	STABILIZER CYLINDER MANIFOLD "L" (FRONT)



Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01		MAIN CONTROL VALVE	1	17	103900	TUBE, TILT SECTION	2
	105159	<i>Note a - (not shown)</i>		18	140883	ADAP. -12JICM -12ORM 90° LNG .	2
	210382	<i>Note b - (shown)</i>		19	L69913	HOSE, -12 A12/DS10 36"	2
02	650731	3/8"-16x3-1/2" BOLT	2	20	072587	ADAP., -12ORM -12JICM STR. . .	AR
03	654026	3/8" LOCK WASHER	2	21	105161	ADAPTER, PORT RESTRICTOR . .	1
04	650495	1/2"-13x1-1/4" BOLT	2	22	L99903	RESTRICTOR, WORK PORT	1
05	654009	1/2" FLAT WASHER	2	23	077965	ADAP., -16JICM -16ORM 90° . . .	1
06	103899	VALVE MOUNT PLATE	1	24	105166	HOSE, -16 A16/A16 60"	1
07	103194	ADAPTER, JOYSTICK	AR				
		(1/4BSP -6JICM STR)					
08	L69908	HOSE, -8 A12/DS10 50"	2	a		Three-section valve does not include the auxiliary hydraulics work section. To add the auxiliary hydraulics section order PN 105165 Valve Section and (4) PN 103059 tie rod kits.	
09	075235	ADAP., -12JICM -12JICFS 90° . . .	2				
10	P471299	ADAP., -12JICM BLKHD RUN TEE .	2				
11	230-32674	ADAP., -12JICM BLKHD 90°	AR	b		Four-section valve, includes auxiliary hydraulics work section.	
12	105167	HOSE, -16 A16/DS16 78"	1				
13	064644	ADAP., -16JICM -16ORM STR. . . .	1	c		Used when equipped with optional auxiliary hydraulics valve section.	
14 ^c	103902	TUBE, AUXILIARY SECT.	2				
15	103901	TUBE, BOOM IN/OUT (long).	1				
16	105164	TUBE, BOOM IN/OUT (short)	1				



DL7/ DL9/ DL11/ DL12**Hydraulics*****Tri-Function (Four-Button) Manifold - Standard Hydraulics***

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	098691	ADAP., -6JICM BLKHEAD TEE	1	08	L69904	HOSE, -4 A6/DS6 20"	2
02	L69907	HOSE, --4 A6/DS6 84"	1	09	L71360	HOSE, -4 A6/DS6 98"	1
03	L69920	HOSE, -4 A6/A6 40"	1	10	L50741	1/4"x3-1/4" STUD	2
04	054994	ADAP., -6ORM -6JICM STR	9	11	080556	ADAP., CAP -6JICF	1
05	L69904	HOSE, -4 A6/DS6 20"	2	12	103194	ADAP., 1/4BSP -6JICM	AR
06	106898	PILOT APPLY MANIFOLD.	1	13	210807	ADAP., -6ORM -6JICM (w/orifice) . .	2
07	068938	ADAP., -6ORM -6JICM 90°	1				

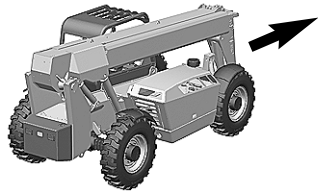
Hose Locator

Ref No.	From Port	To Port
02	BULKHEAD TEE (ABOVE VALVE)	HYDRAULIC TANK RETURN MANIFOLD
03	PILOT APPLY MANIFOLD "T"	BULKHEAD TEE (ABOVE VALVE)
05	PILOT APPLY MANIFOLD "B"	PILOT VALVE (<i>as shown</i>)
08	PILOT APPLY MANIFOLD "A"	PILOT VALVE (<i>as shown</i>)
09	PILOT APPLY MANIFOLD "P"	SAHR VALVE "P1" (BOTTOM OF TEE)

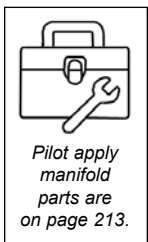
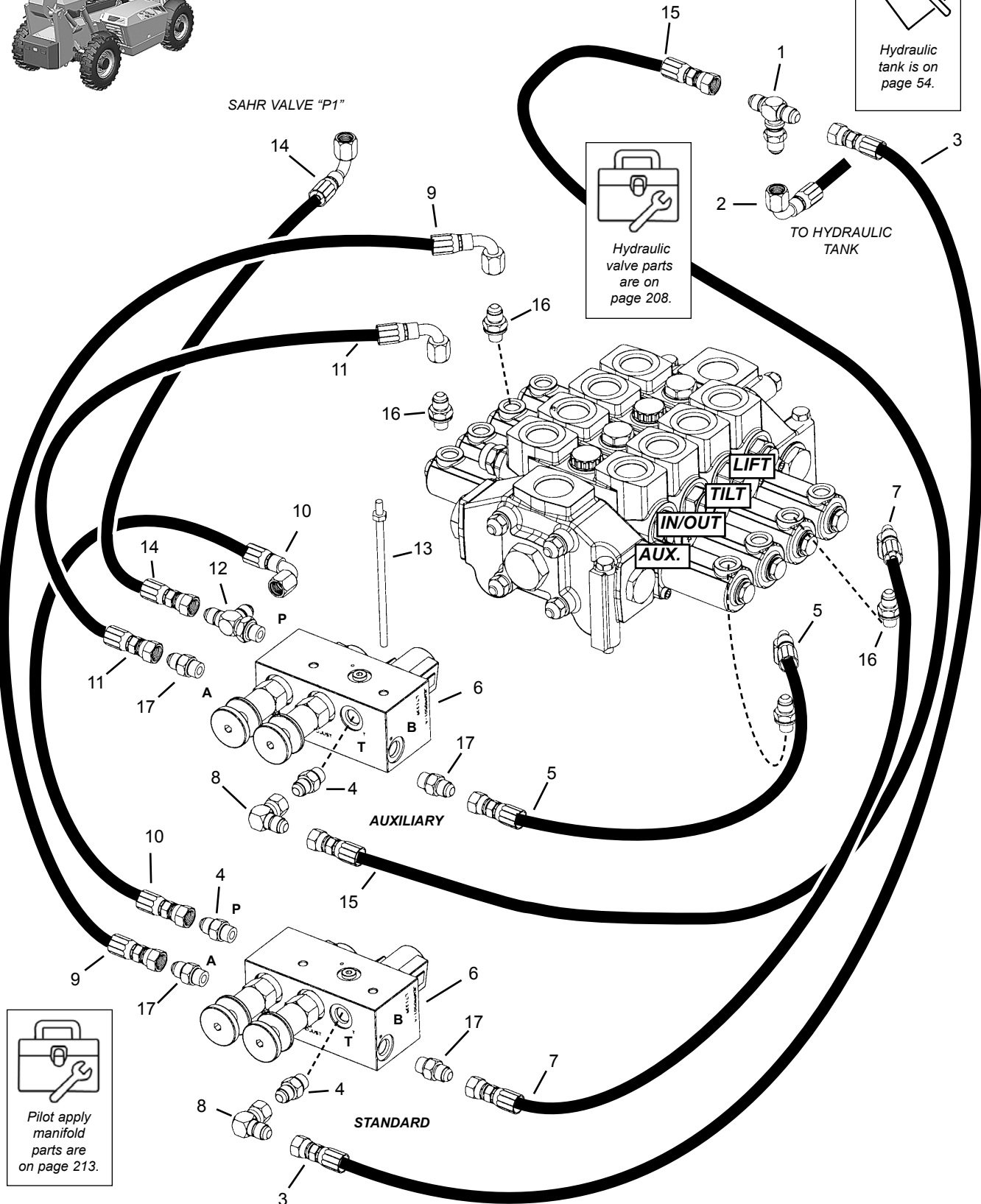
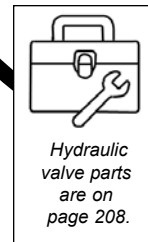
Hydraulics

Tri-Function (Four-Button) Manifold - w/Auxiliary Hydraulics

DL Series Dynalift



SAHR VALVE "P1"



Tri-Function (Four-Button) Manifold - w/Auxiliary Hydraulics

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	098691	ADAP., -6JICM BLKHEAD TEE....	1	10	L69903	HOSE, -4 A6/DS6 17"	1
02	L69907	HOSE, -4 A6/DS6 84"	1	11	L69903	HOSE, -4 A6/DS6 17"	1
03	L69920	HOSE, -4 A6/A6 40"	1	12	054820	ADAP., -6ORM -6JICM RUN TEE..	1
04	054994	ADAP., -6ORM -6JICM STR.....	AR	13	L50745	1/4"-20x5-3/4" STUD	2
05	L69903	HOSE, -4 A6/DS6 17"	1	14	L71360	HOSE, -4 A6/DS6 98"	1
06	106898	PILOT APPLY MANIFOLD.	1	15	L69920	HOSE, -4 A6/A6 40"	1
07	L69904	HOSE, -4 A6/DS6 20"	1	16	103194	ADAP., 1/4BSP -6JICM	AR
08	091039	ADAP., -6JICFS -6JICM 90°	2	17	210807	ADAP., -6ORM -6JICM (w/orifice) ..	4
09	L69904	HOSE, -4 A6/DS6 20"	1				

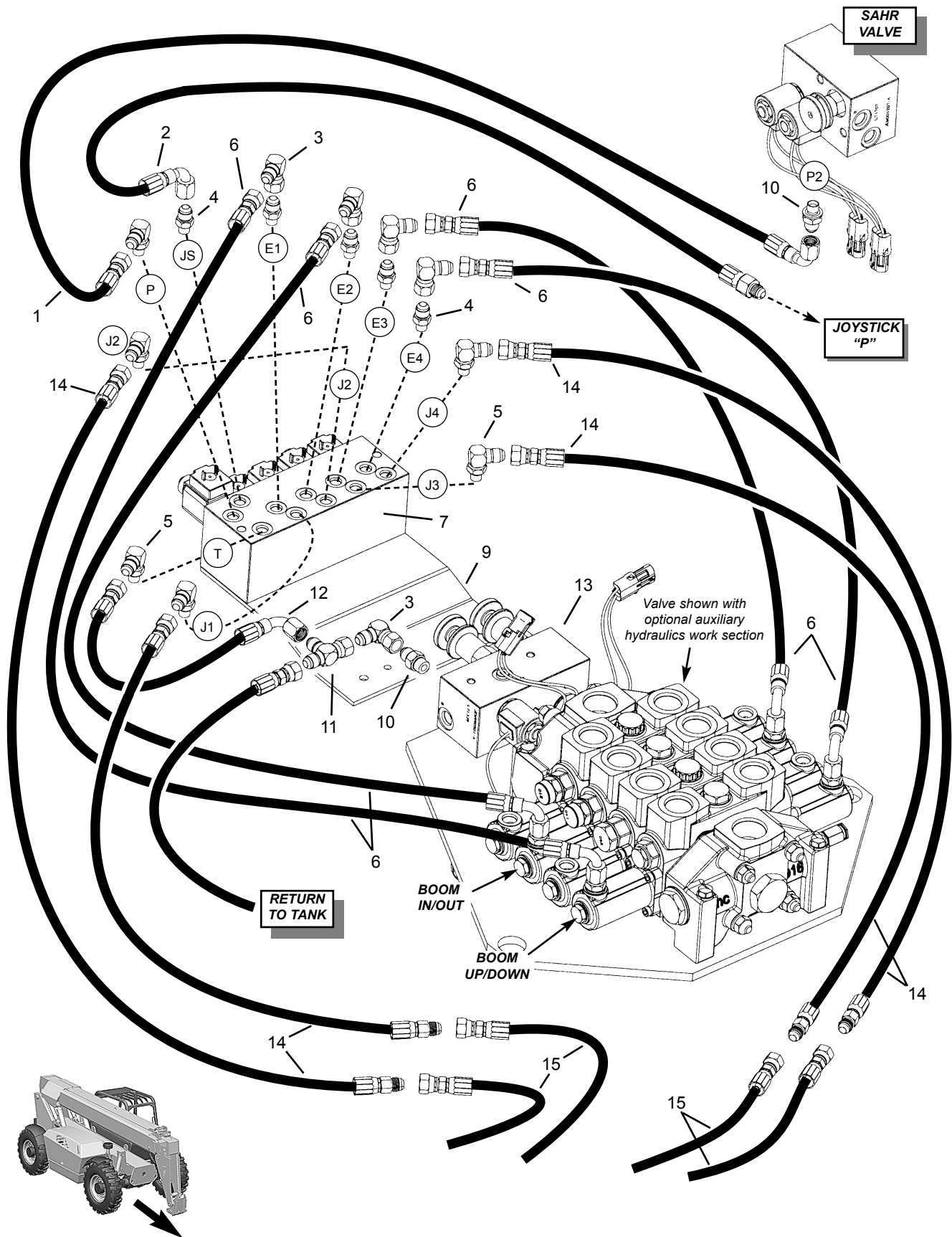
Hose Locator

Ref No.	From Port	To Port
02	BULKHEAD TEE (ABOVE VALVE)	HYDRAULIC TANK RETURN MANIFOLD
03	STANDARD PILOT APPLY MANIFOLD "T"	BULKHEAD TEE (ABOVE VALVE)
05	AUXILIARY PILOT APPLY MANIFOLD "B"	PILOT VALVE (<i>as shown</i>)
07	STANDARD PILOT APPLY MANIFOLD "B"	PILOT VALVE (<i>as shown</i>)
09	STANDARD PILOT APPLY MANIFOLD "A"	PILOT VALVE (<i>as shown</i>)
10	STANDARD PILOT APPLY MANIFOLD "P"	AUXILIARY PILOT APPLY MANIFOLD "P"
11	AUXILIARY PILOT APPLY MANIFOLD "A"	PILOT VALVE (<i>as shown</i>)
14	AUXILIARY PILOT APPLY MANIFOLD "P"	SAHR VALVE "P1" (BOTTOM OF TEE)
15	AUXILIARY PILOT APPLY MANIFOLD "T"	BULKHEAD TEE (ABOVE VALVE)

Hydraulics

Tri-Function (Four-Button) Manifold - Radio Remote Option

DL Series Dynalift

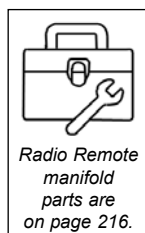
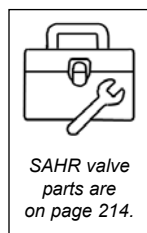
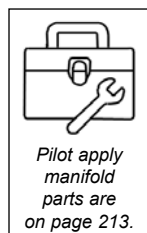
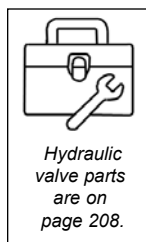
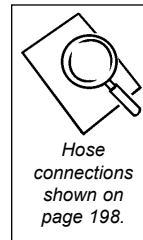


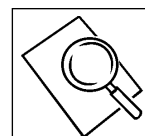
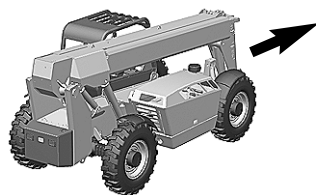
Tri-Function (Four-Button) Manifold - Radio Remote Option

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	103506	HOSE, -4 A6/DS6 106"	1	14	L69902	HOSE, -4 H6/A6 20"	4
02	103505	HOSE, -4 DS6/H6 109"	1	15 ^b	L69906	HOSE, -4 A6/A6 110"	4
03	091039	ADAP., -6JICFS -6JICM 90°	AR				
04	129124	ADAP., -4ORM -6JICM STR.	5				
05	137784	ADAP., -4ORM -6JICM 90°	6				
06	L68804	HOSE, -4 A6/DS6 26"	4				
07	103413	MANIFOLD, RADIO REMOTE	1				
09	103425	MOUNT, MANIFOLD	1				
10	054994	ADAP., -6ORM -6JICM STR.	AR				
11	072806	ADAP., -6 RUN TEE	1				
12	L69903	HOSE, -4 A6/DS6 17"	1				
13 ^a	106898	PILOT APPLY MANIFOLD	AR				

a Units equipped with auxiliary hydraulics use two manifolds; the hose routing is the same as shown in the illustration on the facing page.

b Hoses connect to the tri-function controller (joystick).

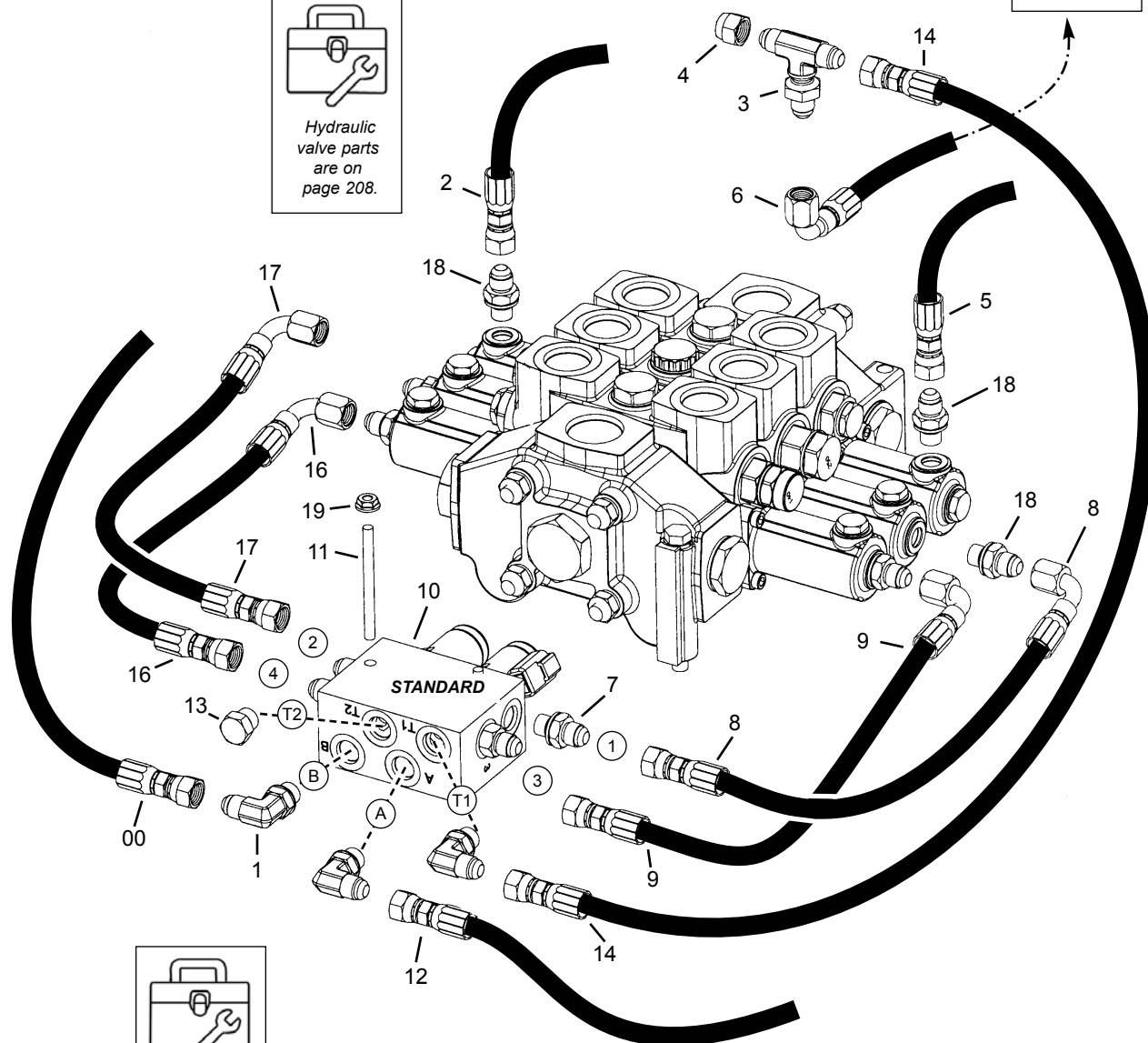




Hydraulic tank is on page 54.



Hydraulic valve parts are on page 208.

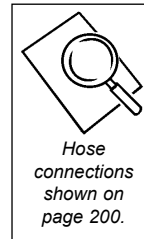


Pilot apply manifold parts are on page 212.

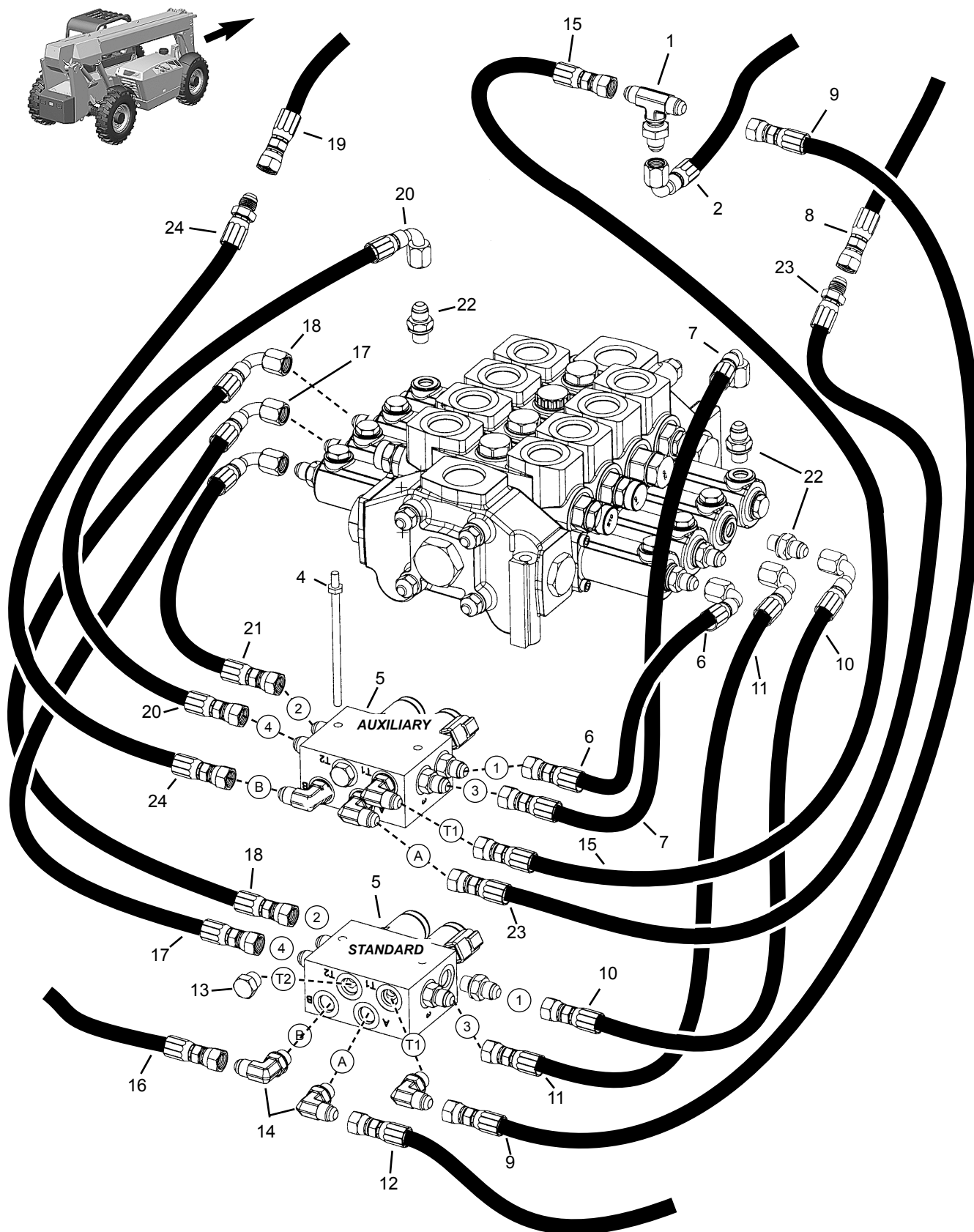
Dual-Function (Two-Button) Manifold - Standard Hydraulics

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	068938	ADAP., -6ORM -6JICM 90°	AR	13	122778	ADAP., -6ORM PLUG	1
02 ^a	L69906	HOSE, -4 A6/A6 110"	1	14	L69920	HOSE, -4 A6/A6 40"	1
03	098691	ADAP., -6JICM BLKHEAD TEE	1	15 ^a	L69905	HOSE, -4 A6/A6 130"	1
04	080556	ADAP., -6JICM CAP	1	16	L69903	HOSE, -4 A6/DS6 17"	1
05 ^a	L69906	HOSE, -4 A6/A6 110"	1	17	L69904	HOSE, -4 A6/DS6 20"	1
06	L69907	HOSE, -4 A6/DS6 84"	1	18	103194	ADAP., 1/4BSP -6JICM	AR
07	054994	ADAP., -6ORM -6JICM STR	4	19	L50051	1/4"-20 FLANGE LOCK NUT	2
08	L69904	HOSE, -4 A6/DS6 20"	1				
09	L69903	HOSE, -4 A6/DS6 17"	1				
10	106899	PILOT APPLY MANIFOLD	1				
11	L50743	STUD	2				
12 ^a	L69905	HOSE, -4 A6/A6 130"	1				

a Hoses connect to the dual-function controller (joystick).

**Hose Locator**

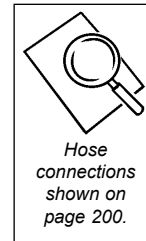
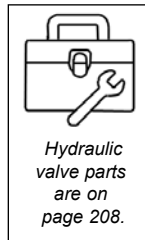
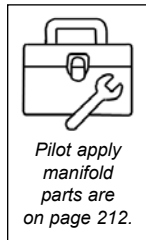
Ref No.	From Port	To Port
02	PILOT VALVE (<i>as shown</i>)	JOYSTICK "4"
05	PILOT VALVE (<i>as shown</i>)	JOYSTICK "2"
06	BULKHEAD TEE (ABOVE VALVE)	HYDRAULIC TANK RETURN MANIFOLD
08	STANDARD PILOT APPLY MANIFOLD "2"	PILOT VALVE (<i>as shown</i>)
09	STANDARD PILOT APPLY MANIFOLD "4"	PILOT VALVE (<i>as shown</i>)
12	STANDARD PILOT APPLY MANIFOLD "B"	JOYSTICK "1"
14	STANDARD PILOT APPLY MANIFOLD "T2"	BULKHEAD TEE (ABOVE VALVE)
15	STANDARD PILOT APPLY MANIFOLD "A"	JOYSTICK "3"
16	STANDARD PILOT APPLY MANIFOLD "3"	PILOT VALVE (<i>as shown</i>)
17	STANDARD PILOT APPLY MANIFOLD "3"	PILOT VALVE (<i>as shown</i>)



Dual-Function (Two-Button) Manifold - w/Auxiliary Hydraulics

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	098691	ADAP., -6JICM BLKHEAD TEE....	1	14	068938	ADAP., -6ORM -6JICM 90°	6
02	L69907	HOSE, -4 A6/DS6 84"	1	15	L69920	HOSE, -4 A6/A6 40"	1
03	054994	ADAP., -6ORM -6JICM STR.....	AR	16 ^a	L69905	HOSE, -4 A6/DS6 130"	1
04	L50744	STUD	2	17	L69903	HOSE, -4 A6/DS6 17"	1
05	106899	PILOT APPLY MANIFOLD.	2	18	L69904	HOSE, -4 A6/DS6 20"	1
06	L69903	HOSE, -4 A6/DS6 17"	1	19 ^a	L69906	HOSE, -4 A6/A6 110"	1
07	L69904	HOSE, -4 A6/DS6 20"	1	20	L69904	HOSE, -4 A6/DS6 20"	1
08 ^a	L69906	HOSE, -4 A6/A6 110"	1	21	L69903	HOSE, -4 A6/DS6 17"	1
09	L69920	HOSE, -4 A6/A6 40"	1	22	103194	ADAP., 1/4BSP -6JICM	AR
10	L69904	HOSE, -4 A6/DS6 20"	1	23	L69902	HOSE, -4 H6/AS6 20"	1
11	L69903	HOSE, -4 A6/DS6 17"	1	23	L69902	HOSE, -4 H6/AS6 20"	1
12 ^a	L69905	HOSE, -4 A6/DS6 130"	1				
13	122778	ADAP., -6ORM PLUG	1				

a Hoses connect to the dual-function controller (joystick).

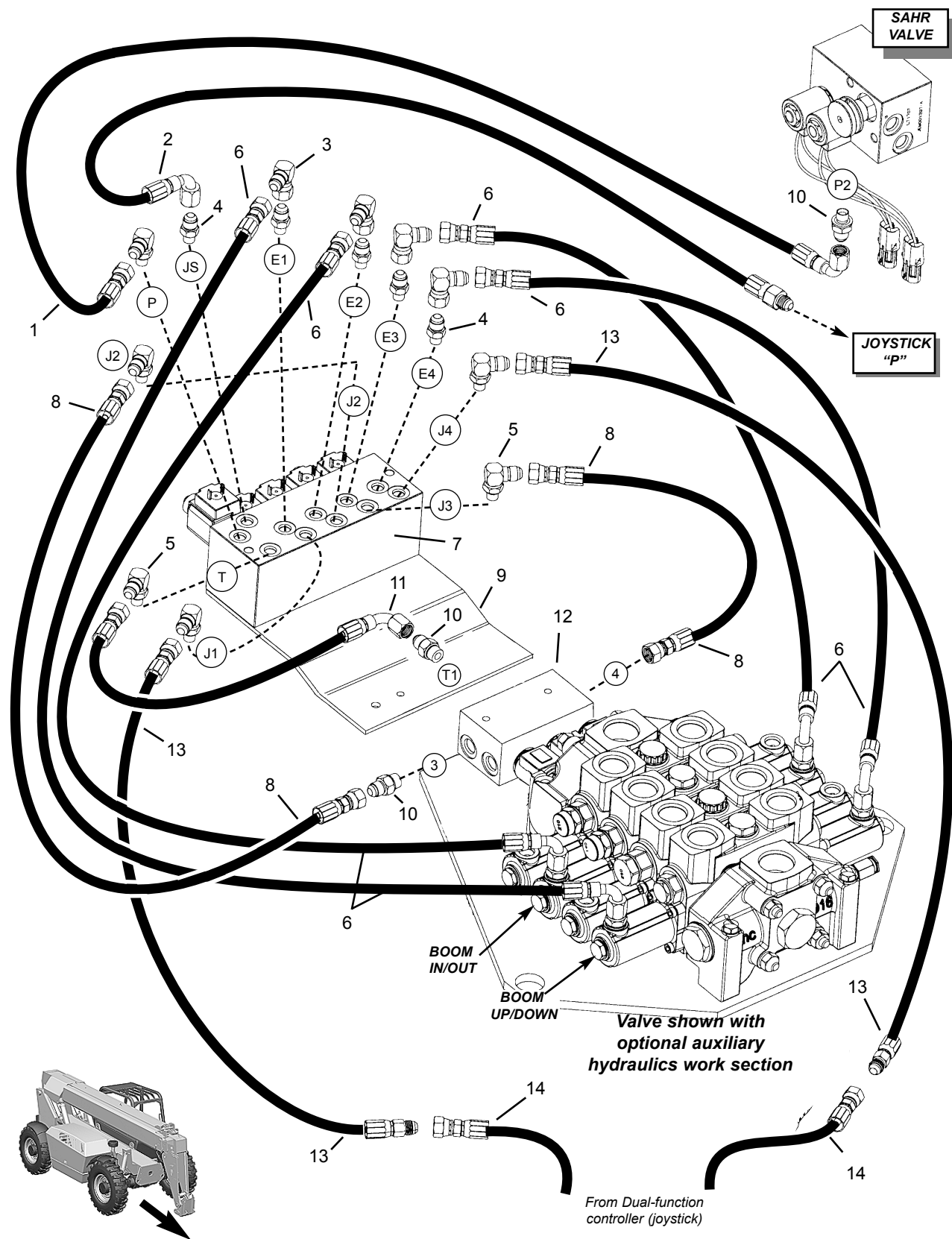
**Hose Locator**

Ref No.	From Port	To Port
02	BULKHEAD TEE (ABOVE VALVE)	HYDRAULIC TANK RETURN MANIFOLD
06	AUXILIARY PILOT APPLY MANIFOLD "1"	PILOT VALVE (as shown)
07	AUXILIARY PILOT APPLY MANIFOLD "3"	PILOT VALVE (as shown)
08	AUXILIARY PILOT APPLY MANIFOLD "A"	JOYSTICK "2"
09	AUXILIARY PILOT APPLY MANIFOLD "T1"	BULKHEAD TEE (ABOVE VALVE)
10	STANDARD PILOT APPLY MANIFOLD "1"	PILOT VALVE (as shown)
11	STANDARD PILOT APPLY MANIFOLD "3"	PILOT VALVE (as shown)
12	STANDARD PILOT APPLY MANIFOLD "A"	JOYSTICK "1"
15	STANDARD PILOT APPLY MANIFOLD "T1"	BULKHEAD TEE (ABOVE VALVE)
16	STANDARD PILOT APPLY MANIFOLD "B"	JOYSTICK "3"
17	STANDARD PILOT APPLY MANIFOLD "4"	PILOT VALVE (as shown)
18	STANDARD PILOT APPLY MANIFOLD "2"	PILOT VALVE (as shown)
19	FROM STANDARD PILOT APPLY MANIFOLD "B"	JOYSTICK "4"
20	AUXILIARY PILOT APPLY MANIFOLD "4"	PILOT VALVE (as shown)
21	AUXILIARY PILOT APPLY MANIFOLD "2"	PILOT VALVE (as shown)
23	AUXILIARY PILOT APPLY MANIFOLD "A"	HOSE #08 TO JOYSTICK "2"
24	AUXILIARY PILOT APPLY MANIFOLD "B"	HOSE #19 TO JOYSTICK "4"

Hydraulics

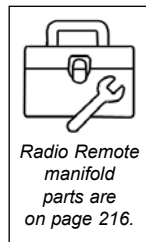
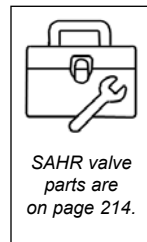
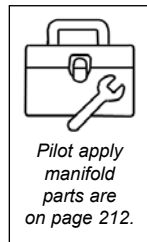
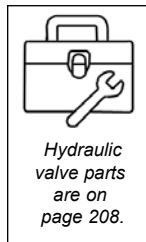
DL Series Dynalift

Dual-Function (Two-Button) Manifold - Radio Remote Option



Dual-Function (Two-Button) Manifold - Radio Remote Option

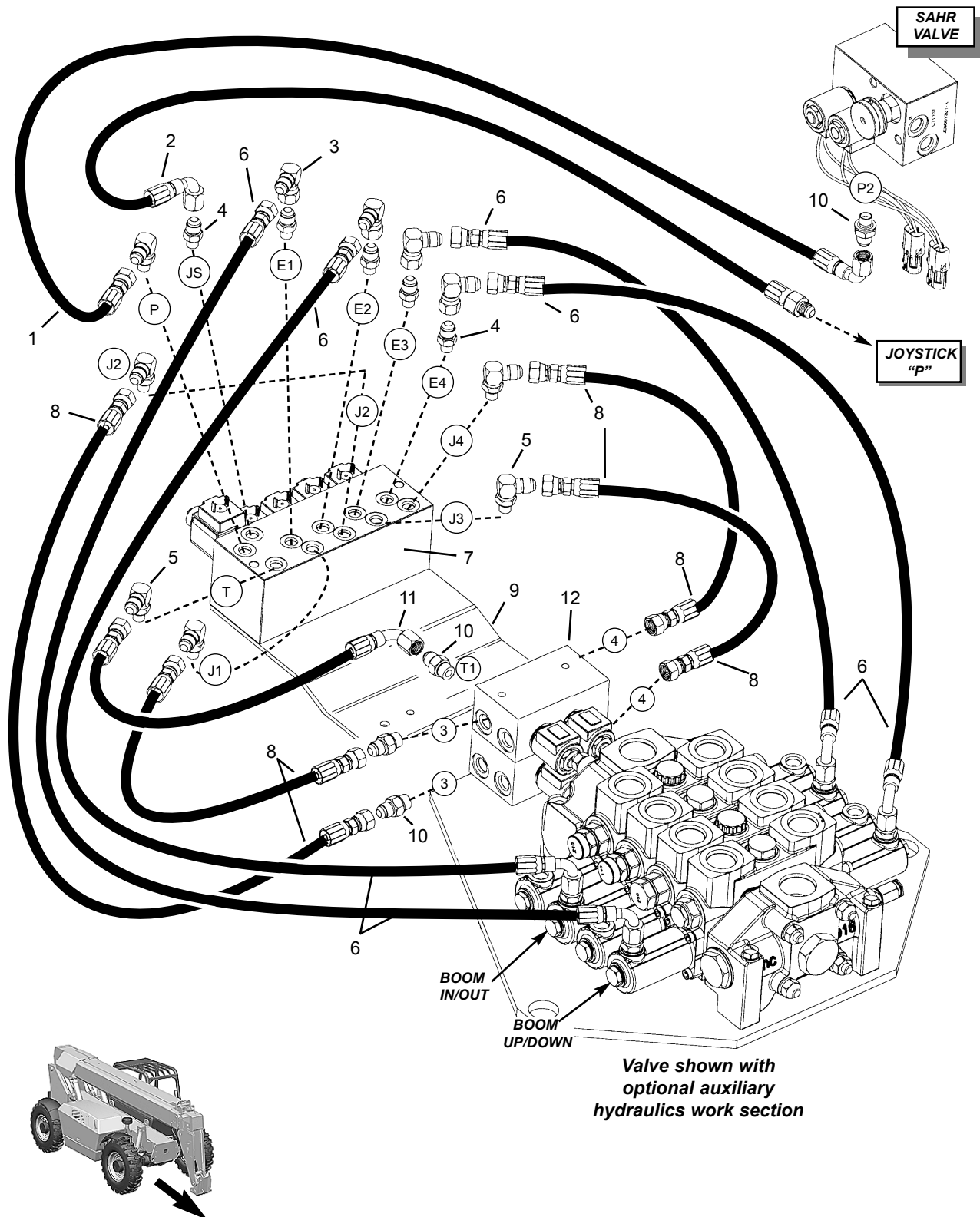
Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	103506	HOSE, -4 A6/DS6 106"	1	08	L70688	HOSE, -4 A6/A6 16"	2
02	103505	HOSE, -4 DS6/H6 109"	1	09	103425	MOUNT, MANIFOLD	1
03	091039	ADAP., -6JICFS -6JICM 90°	AR	10	054994	ADAP., -6ORM -6JICM STR.	AR
04	129124	ADAP., -4ORM -6JICM STR.	5	11	L69903	HOSE, -4 A6/DS6 17"	1
05	137784	ADAP., -4ORM -6JICM 90°	6	12	106899	PILOT APPLY MANIFOLD.	1
06	L68804	HOSE, -4 A6/DS6 26"	4	13	L69902	HOSE, -4 H6/A6 20"	2
07	103413	MANIFOLD, RADIO REMOTE	1	14	L69905	HOSE, -4 A6/A6 130"	2



Hydraulics

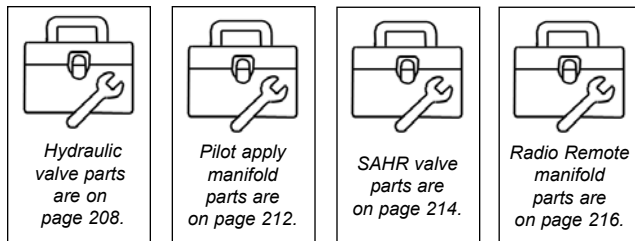
DL Series Dynalift

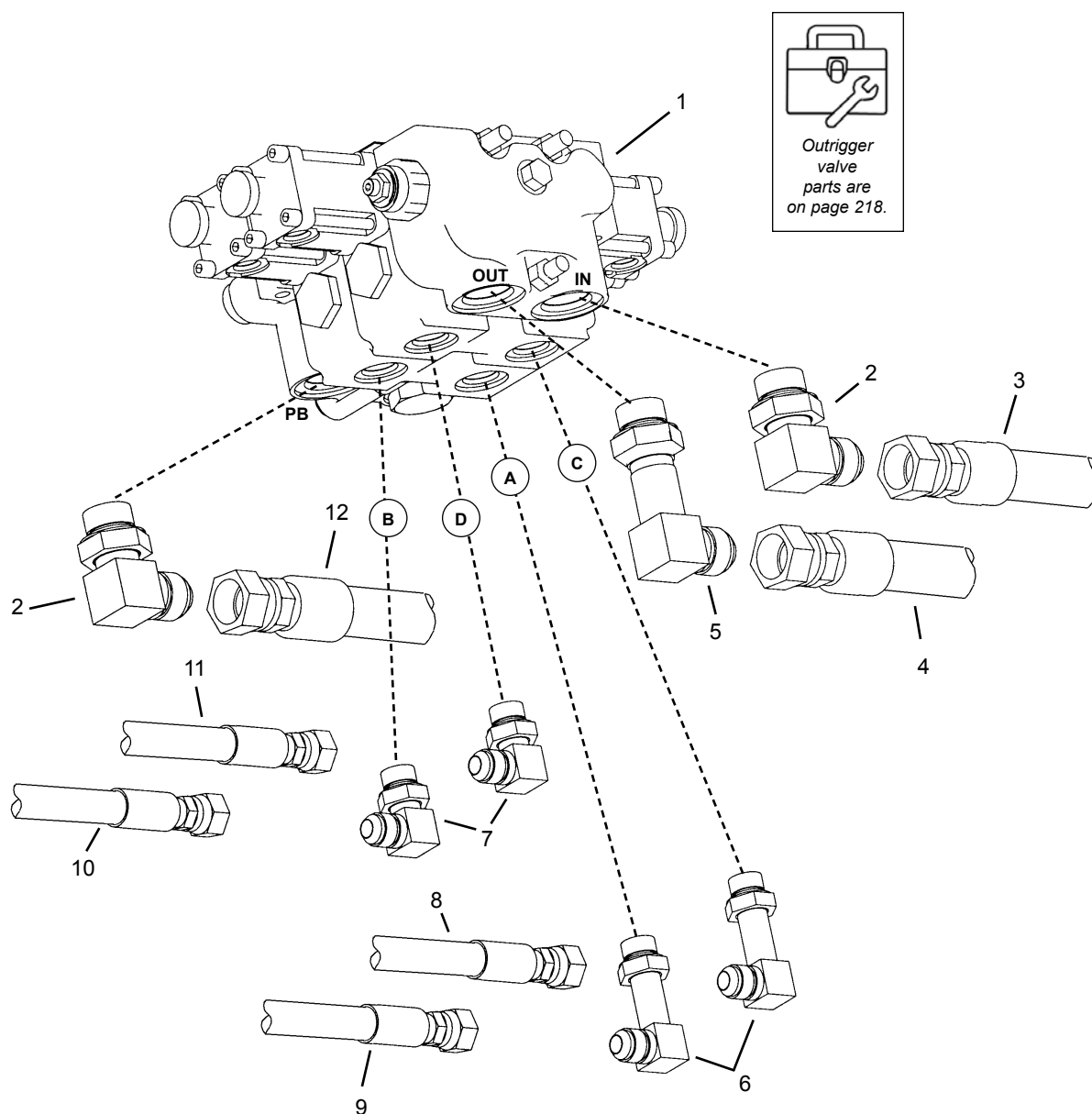
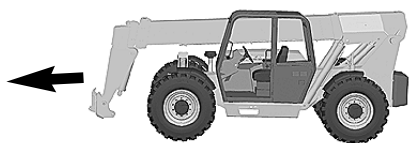
Dual-Function (Two-Button) Manifold - Radio Remote Option w/Aux. Hyd.



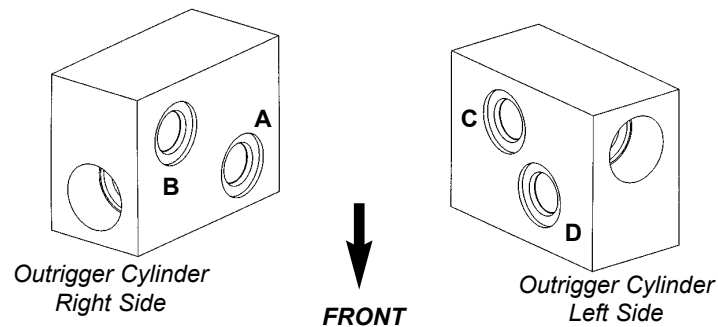
DL7/ DL9/ DL11/ DL12**Hydraulics*****Dual-Function (Two-Button) Manifold - Radio Remote Option w/Aux. Hyd.***

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	103506	HOSE, -4 A6/DS6 106"	1	07	103413	MANIFOLD, RADIO REMOTE	1
02	103505	HOSE, -4 DS6/H6 109"	1	08	L70688	HOSE, -4 A6/A6 16"	4
03	091039	ADAP., -6JICFS -6JICM 90°.....	AR	09	103425	MOUNT, MANIFOLD	1
04	129124	ADAP., -4ORM -6JICM STR.....	5	10	054994	ADAP., -6ORM -6JICM STR.....	AR
05	137784	ADAP., -4ORM -6JICM 90°	6	11	L69903	HOSE, -4 A6/DS6 17"	1
06	L68804	HOSE, -4 A6/DS6 26"	4	12	106899	PILOT APPLY MANIFOLD.....	2



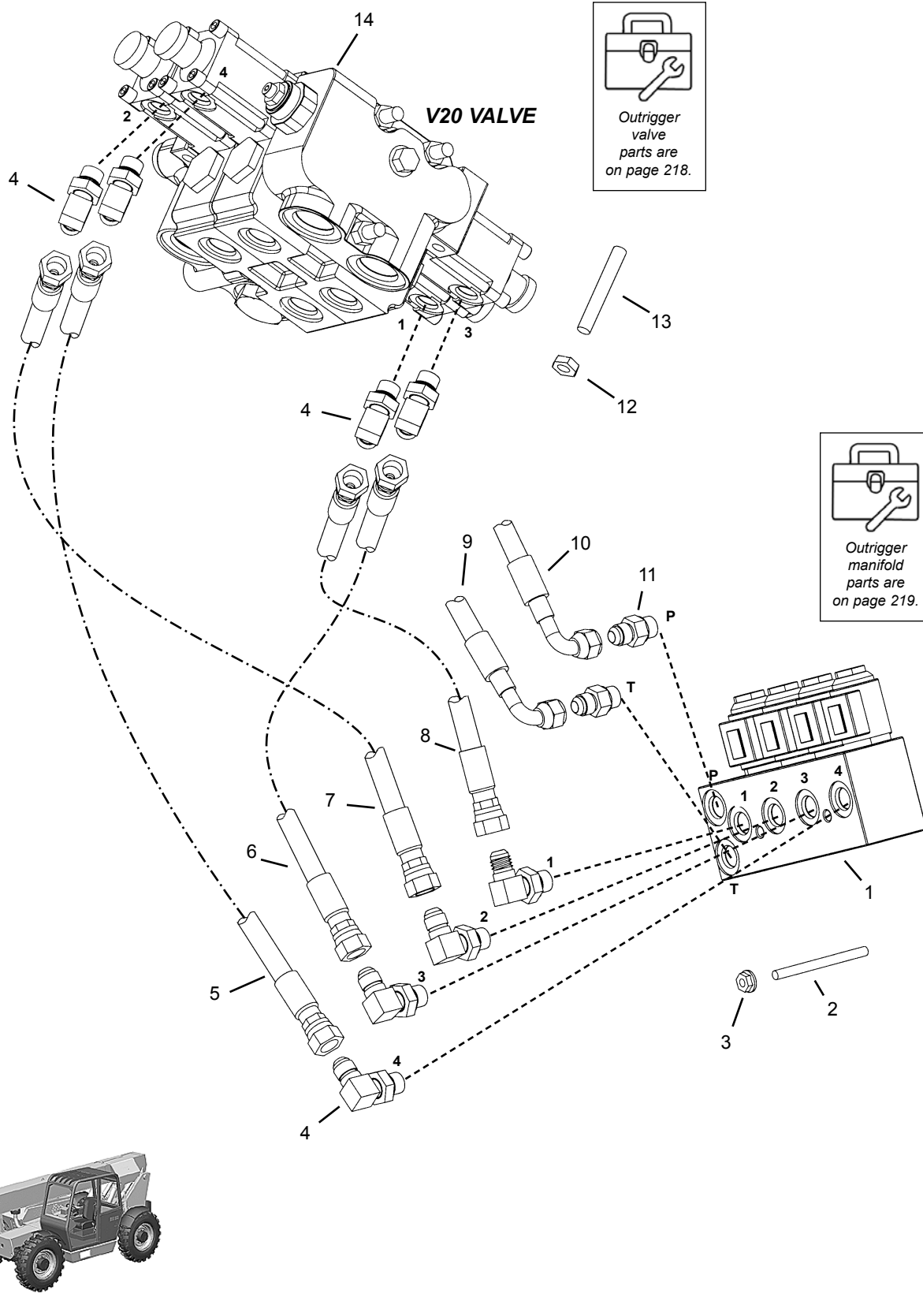


Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	L70528	OUTRIGGER VALVE (V20)	1	07	054816	ADAP., -8ORM -8JICM 90°	2
02	055005	ADAP., -12ORM -12JICM 90°	2	08	L70691	HOSE, -6 A8/DS8 70"	1
03	L70694	HOSE, -12 A12/A16 76"	1	09	L70691	HOSE, -6 A8/DS8 70"	1
04	L70692	HOSE, -12 A12/NS10 51"	1	10	L70695	HOSE, -6 A8/DS8 68"	1
05	140883	ADAP., -12ORM -12JICM 90° LNG. 1		11	L70695	HOSE, -6 A8/DS8 68"	1
06	126862	ADAP., -8ORM -8JICM 90° LNG. . . 2		12	L70693	HOSE, -12 A12/A16 61"	1



Hose Locator

Ref No.	From Port	To Port
03	V20 VALVE "IN"	FLOW DIVIDER ON HYDRAULIC PUMP
04	V20 VALVE "OUT"	HYDRAULIC TANK
08	V20 VALVE "C"	LEFT OUTRIGGER "UPPER PORT" (C)
09	V20 VALVE "A"	RIGHT OUTRIGGER "LOWER PORT" (A)
10	V20 VALVE "B"	RIGHT OUTRIGGER "UPPER PORT" (B)
11	V20 VALVE "D"	LEFT OUTRIGGER "LOWER PORT" (D)
12	V20 VALVE "PB"	HYDRAULIC PUMP

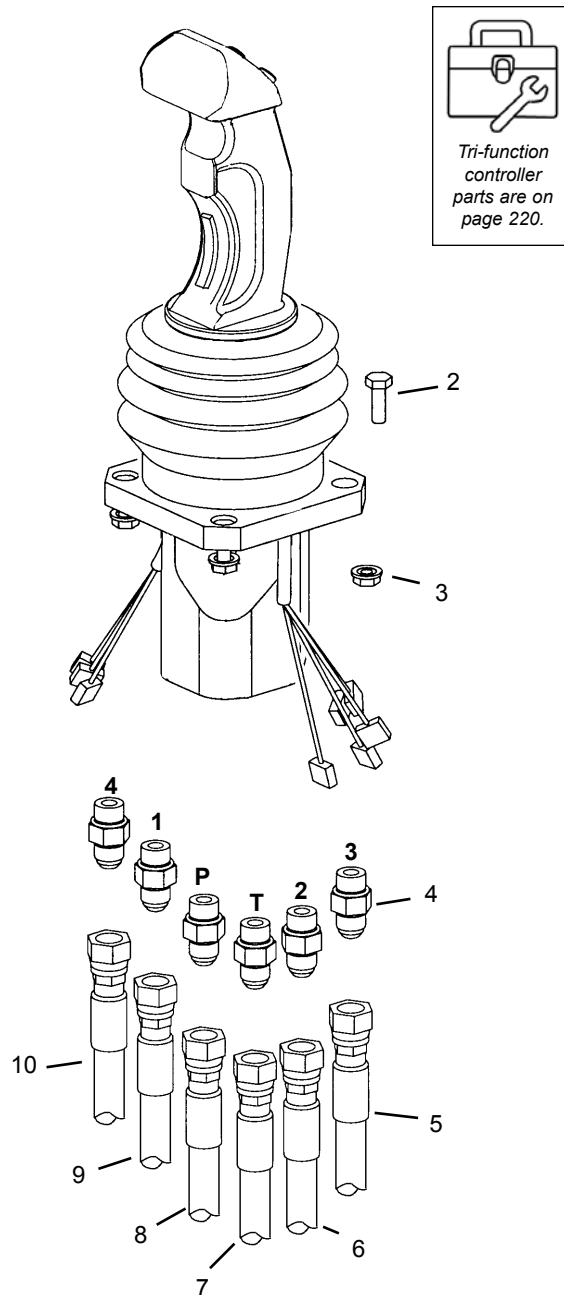


Outrigger Manifold and Hoses

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	103878	OUTRIGGER PILOT VALVE	1	08	L70688	HOSE, -4 A6/A6 16"	1
02	L50743	1/4"-20x3" STUD	2	09	L70690	HOSE, -4 A6/DS6 70"	1
03	L50051	1/4"-20 FLANGE NUT	2	10	L70690	HOSE, -4 A6/DS6 70"	1
04	068938	ADAP., -6ORM - 6JICM 90°	8	11	054994	ADAP., -6ORM -6JICM STR	11
05	L70689	HOSE, -4 A6/A6 28"	1	12	L520004	5/16"-18 NYLON INSERT NUT	3
06	L70688	HOSE, -4 A6/A6 16"	1	13	L50878	5/16"-18x3" STUD	3
07	L70689	HOSE, -4 A6/A6 28"	1	14	L70528	OUTRIGGER VALVE (V20).	1

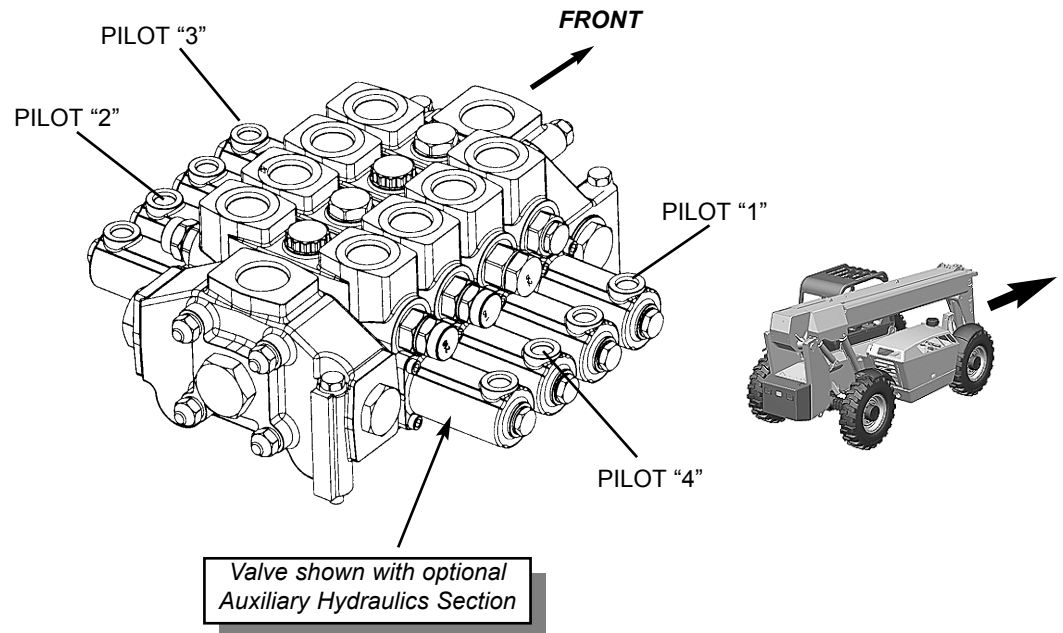
Hose Locator

Ref No.	From Port	To Port
05	OUTRIGGER PILOT MANIFOLD "4"	V20 VALVE "4"
06	OUTRIGGER PILOT MANIFOLD "3"	V20 VALVE "3"
07	OUTRIGGER PILOT MANIFOLD "2"	V20 VALVE "2"
08	OUTRIGGER PILOT MANIFOLD "1"	V20 VALVE "1"
09	OUTRIGGER PILOT MANIFOLD "T"	HYDRAULIC PUMP FLOW DIVIDER "T"
10	OUTRIGGER PILOT MANIFOLD "P"	HYDRAULIC PUMP FLOW DIVIDER "PF"

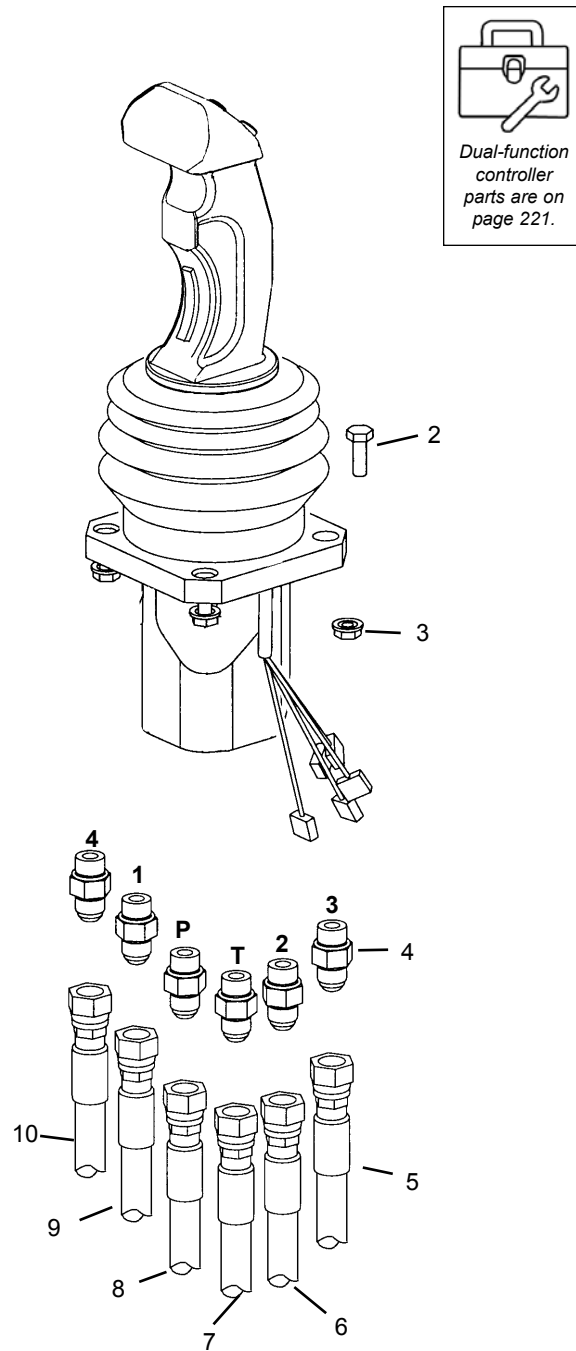


Tri-Function (Four-Button) Controller

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
02	650448	1/4"-20x3/4" BOLT	4	07	L69928	HOSE, -4 A6/A6 25"	1
03	L50051	1/4"-20 FLANGE NUT	4	08	L69930	HOSE, -4 A6/A6 46"	1
04	054994	ADAP., -6ORM -6ORM STR	6	09	L69906	HOSE, -4 A6/A6 110"	1
05	L69906	HOSE, -4 A6/A6 110"	1	10	L69906	HOSE, -4 A6/A6 110"	1
06	L69906	HOSE, -4 A6/A6 110"	1				

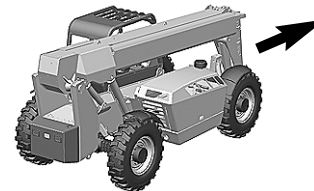
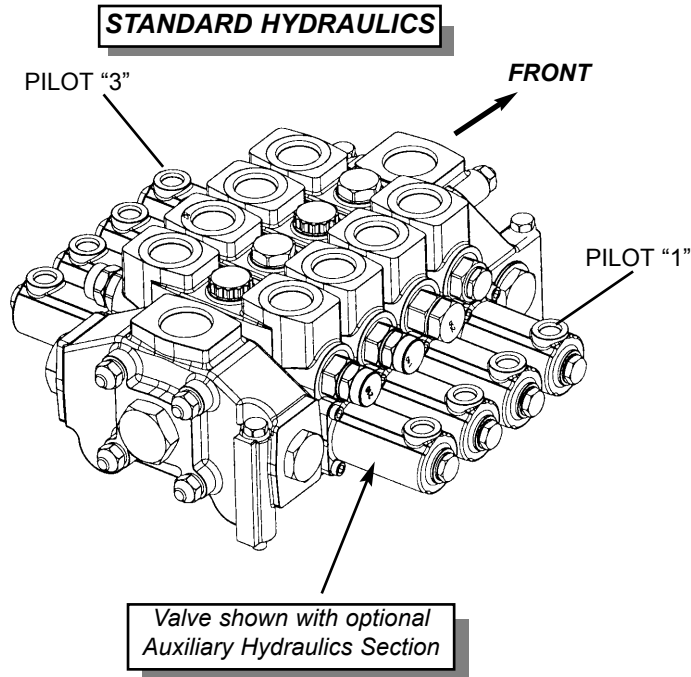
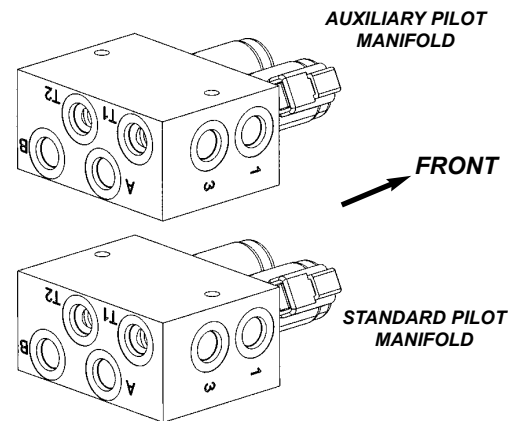
**Hose Locator**

Ref No.	From Port	To Port
05	JOYSTICK "3"	PILOT "3"
06	JOYSTICK "2"	PILOT "2"
07	JOYSTICK "T"	HYDRAULIC TANK RETURN MANIFOLD
08	JOYSTICK "P"	SAHR VALVE "P2"
09	JOYSTICK "1"	PILOT "1"
10	JOYSTICK "4"	PILOT "4"

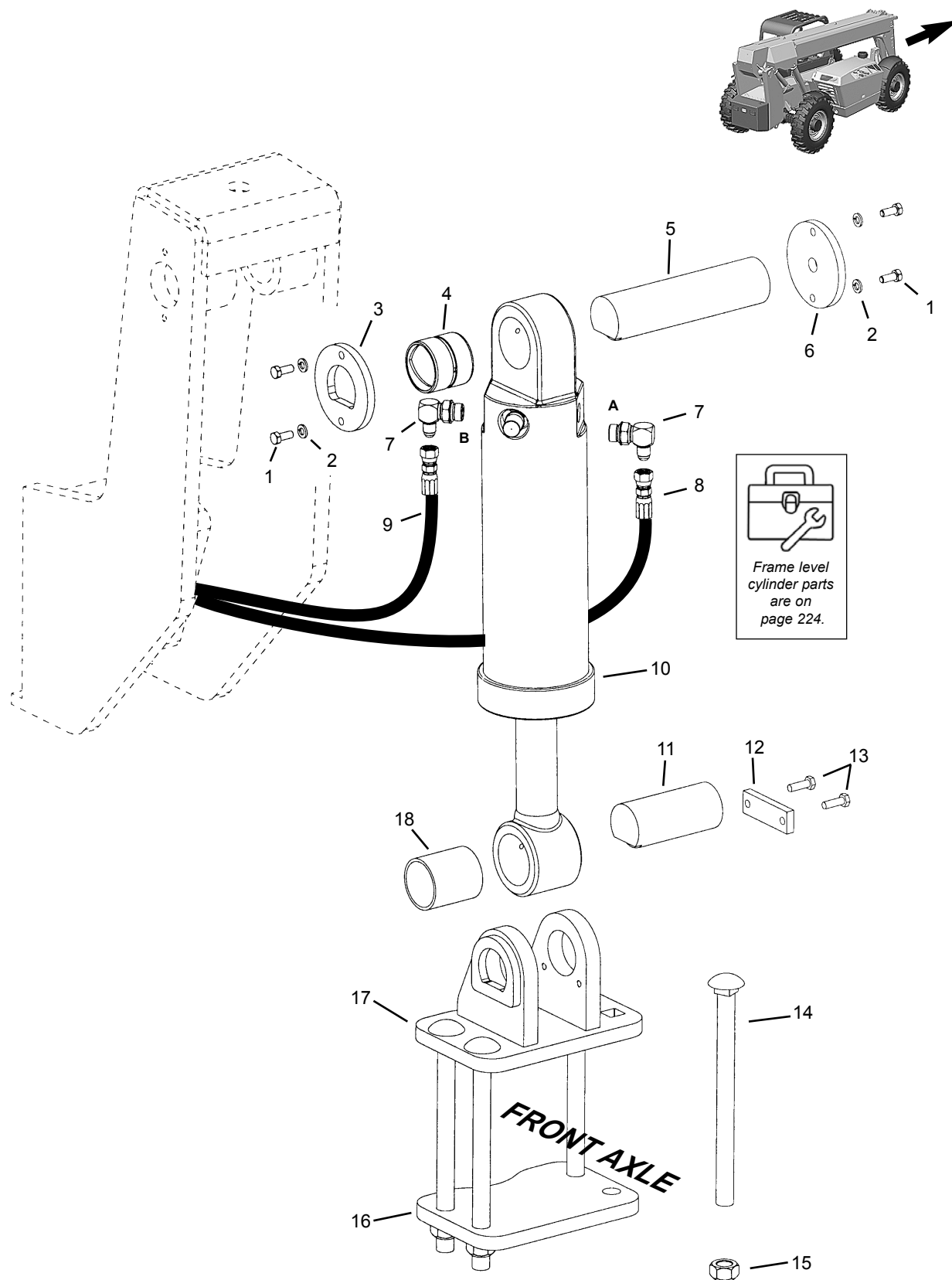


Dual-Function (Two-Button) Controller

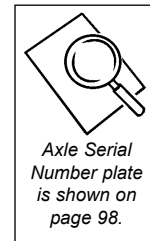
Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
02	650448	1/4"-20x3/4" BOLT	4	07	L69928	HOSE, -4 A6/A6 25"	1
03	L50051	1/4"-20 FLANGE NUT	4	08	L69930	HOSE, -4 A6/A6 46"	1
04	054994	ADAP., -6ORM -6ORM STR	6	09	L69905	HOSE, -4 A6/A6 130"	1
05	L69905	HOSE, -4 A6/A6 130"	1	10	L69906	HOSE, -4 A6/A6 110"	1
06	L69906	HOSE, -4 A6/A6 110"	1				

**AUXILIARY HYDRAULICS****Hose Locator**

Ref No.	From Port	To Port
---- STANDARD HYDRAULICS ----		
05	JOYSTICK "3"	STANDARD PILOT APPLY MANIFOLD "B"
06	JOYSTICK "2"	PILOT "1"
07	JOYSTICK "T"	HYDRAULIC TANK RETURN MANIFOLD
08	JOYSTICK "P"	SAHR VALVE "P2"
09	JOYSTICK "1"	STANDARD PILOT APPLY MANIFOLD "A"
10	JOYSTICK "4"	PILOT "3"
---- AUXILIARY HYDRAULICS ----		
05	JOYSTICK "3"	STANDARD PILOT APPLY MANIFOLD "B"
06	JOYSTICK "2"	AUXILIARY PILOT APPLY MANIFOLD "A"
07	JOYSTICK "T"	HYDRAULIC TANK RETURN MANIFOLD
08	JOYSTICK "P"	SAHR VALVE "P2"
09	JOYSTICK "1"	STANDARD PILOT APPLY MANIFOLD "A"
10	JOYSTICK "4"	AUXILIARY PILOT APPLY MANIFOLD "B"



Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	650486	5/16"-18x3/4" BOLT	4	17		MOUNT, LEVEL CYLINDER	1
02	654024	5/16" LOCK WASHER	4		50380729	<i>Note a (not shown)</i>	
03	L69725	PIN LOCK CAP 2"	1		210423	<i>Note b (shown)</i>	
04	L64367	BUSHING (<i>base end</i>)	1	18	L63016	BUSHING (<i>rod end</i>)	1
05	L70385	LEVEL CYLINDER PIN	1				
06	L69724	PIVOT PIN LOCK CAP	1				
07	110227	ADAP., -8ORM -6JICM 90°	2	a	DL 7 - Axle SN P-ITA-719673 and up DL9 - Axle SN R-ITA-757512 and up DL11 - Axle SN R-ITA-754209 and up DL12 - Axle SN R-ITA-757518 and up		
08	L69921	HOSE, -4 A6/A6 126"	1				
09	L69921	HOSE, -4 A6/A6 126"	1				
10	L63015	FRAME LEVEL CYLINDER	1	b	DL 7 - Axle SN P-ITA-719672 and before DL9 - Axle SN R-ITA-757511 and before DL11 - Axle SN R-ITA-754208 and before DL12 - Axle SN R-ITA-757517 and before		
11	210447	PIN, ROD END	1				
12	L63715	PLATE	1				
13	650487	5/16"x1" BOLT	2				
14	651779	3/4"x10" GR8 CARRIAGE BOLT	4				
15	L50084	3/4"-10 NUT GR8	4				
16	210421	PLATE, BOTTOM MOUNTING	1				



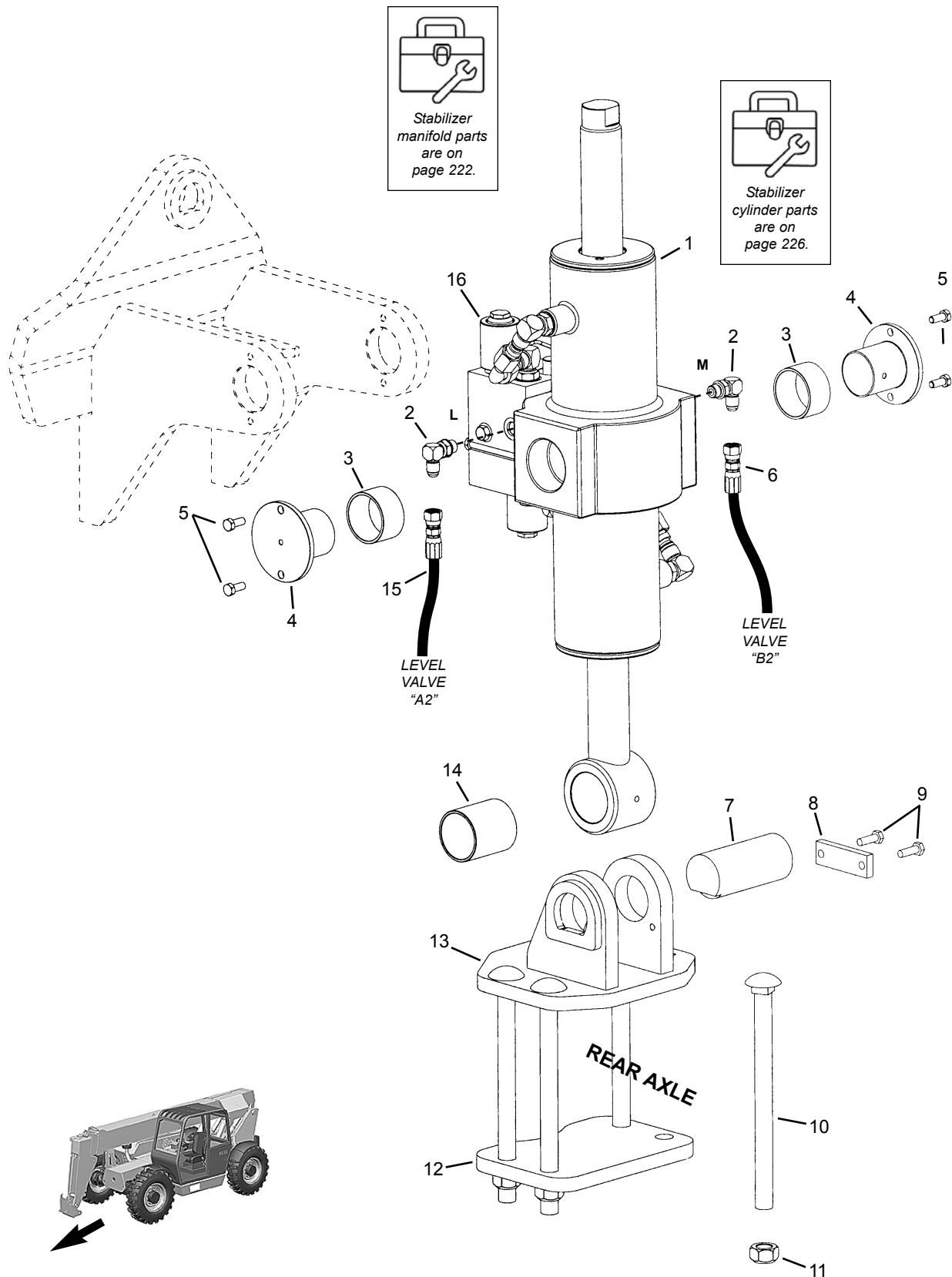
Hose Locator

Ref No.	From Port	To Port
08	LEVEL CYLINDER "A"	LEVEL VALVE "A1"
09	LEVEL CYLINDER "B"	LEVEL VALVE "B1"

Hydraulics

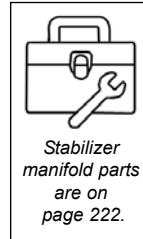
Frame Stabilizer Cylinder Group

DL Series Dynalift



Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01 ^a	L70358	FRAME STABILIZER CYLINDER . . . 1 (cylinder only; does not include #16)		10	651779	3/4"x10" GR8 CARRIAGE BOLT . . . 4	
02	068938	ADAP., -6ORM -6JICM 90° 2		11	L50084	3/4"-10 NUT GR8 4	
03	L69774	BUSHING 2		12	210421	PLATE, BOTTOM MOUNTING 1	
04	L69776	TRUNNION PIVOT PIN 2		13	210425	MOUNT, STABILIZING CYLINDER. 1	
05	650486	5/16"-18x3/4" BOLT 4		14	L69138	BUSHING (rod end). 1	
06	L70084	HOSE, -4 A6/DS6 65" 1		15	L70084	HOSE, -4 A6/DS6 65" 1	
07	210447	PIN, ROD END 1		16 ^a	L71166	STABILIZER CYL. MANIFOLD 1	
08	L63715	PLATE 1					
09	650487	5/16"x1" BOLT 2					

a



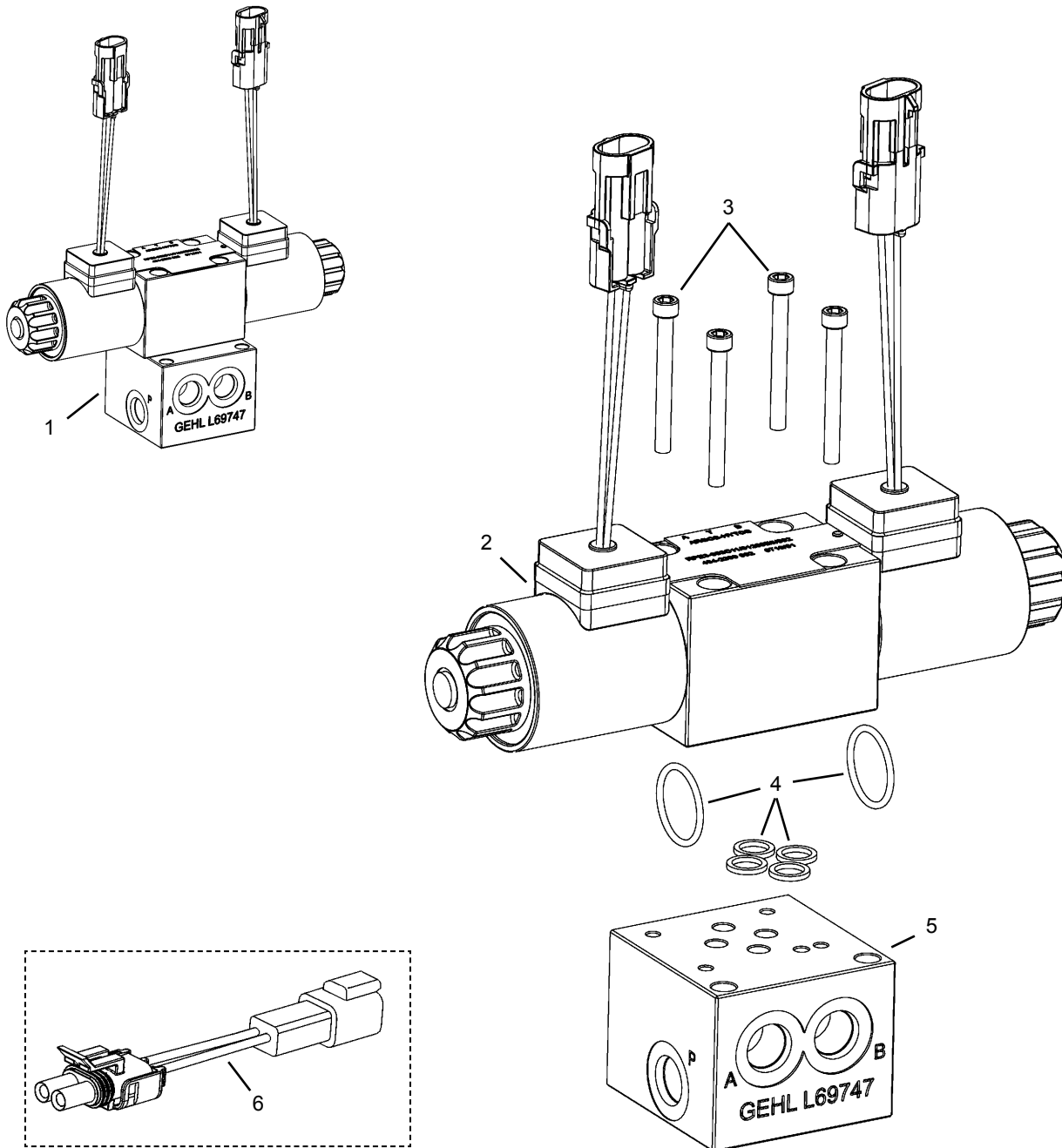
Hose Locator

Ref No.	From Port	To Port
06	STABILIZER CYLINDER MANIFOLD "L"	LEVEL VALVE "A2"
15	STABILIZER CYLINDER MANIFOLD "M"	LEVEL VALVE "B2"

Hydraulic Components

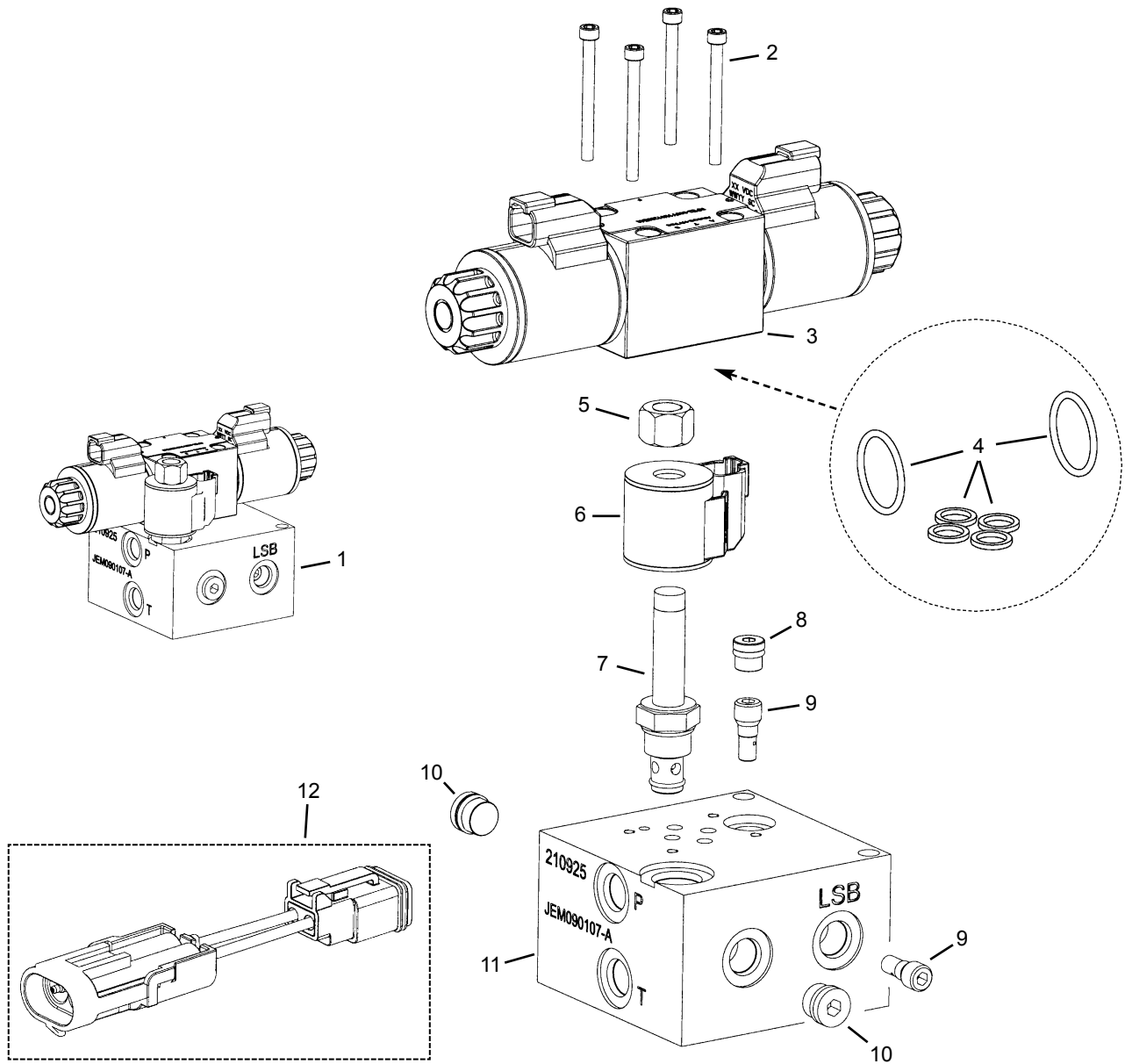
Steer-Select Valve

DL Series Dynalift

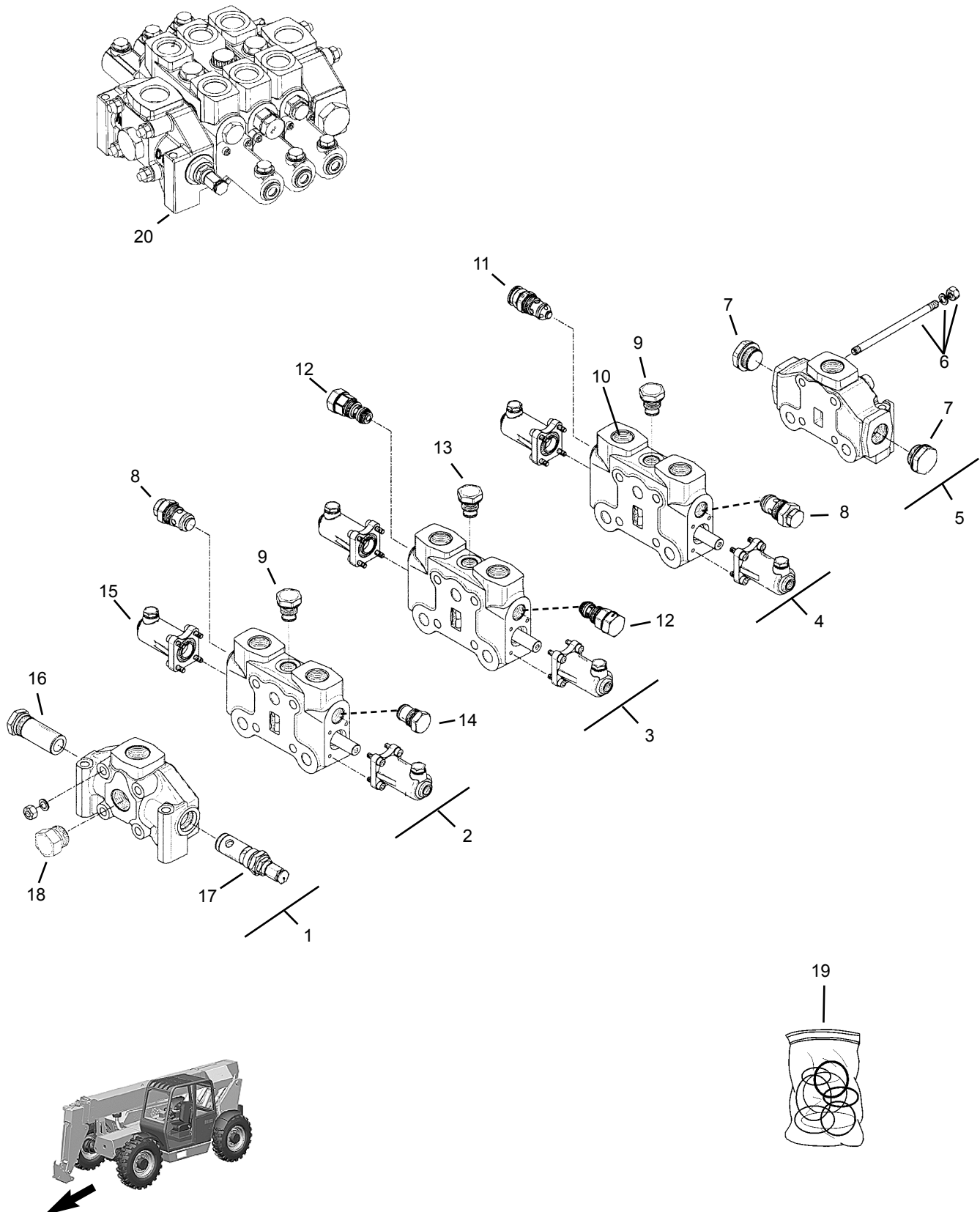


Item No.	Part No.	Description	Qty. Req.
01	L69747	STEER SELECT VALVE..... 1 (Includes items 1-5)	
02	210018	WEATHER PAK VALVE..... 1	
03	NSS	SHCS #10-24 x 1-3/4"..... 4 (included with item #1)	
04	107000	SEAL KIT 1 (consists of the o-rings shown)	

Item No.	Part No.	Description	Qty. Req.
05	NSS	MANIFOLD 1	
06	50380338	WIRE HARNESS, JUMPER 2	
-- ITEMS NOT SHOWN --			
00	L68711	WIRE HARNESS 2 (Connects wire leads to frame wiring.)	



Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	210925	FRAME LEVEL VALVE	1	08	L99917	PLUG -4 NWD.	1
02	NSS	SHCS #10-24 x 2" SHCS	4	09	L99923	SHUTTLE VALVE	2
03	211240	VALVE, WEATHERPAK DO3	1	10	L99922	PLUG -6 NWD.	2
04	107000	SEAL KIT (six o-rings, as shown) . .	1	11	NSS	MANIFOLD	1
05	NSS	NUT (included with item 7)	1	12	211161	WIRE HARNESS, ADAPTER	3
06	104736	COIL 12VDC	1				
07	L99920	2-WAY SOLENOID VALVE	1				
		(includes item 5)					
	L99925	SEAL KIT (seals are not shown) . . .	1				



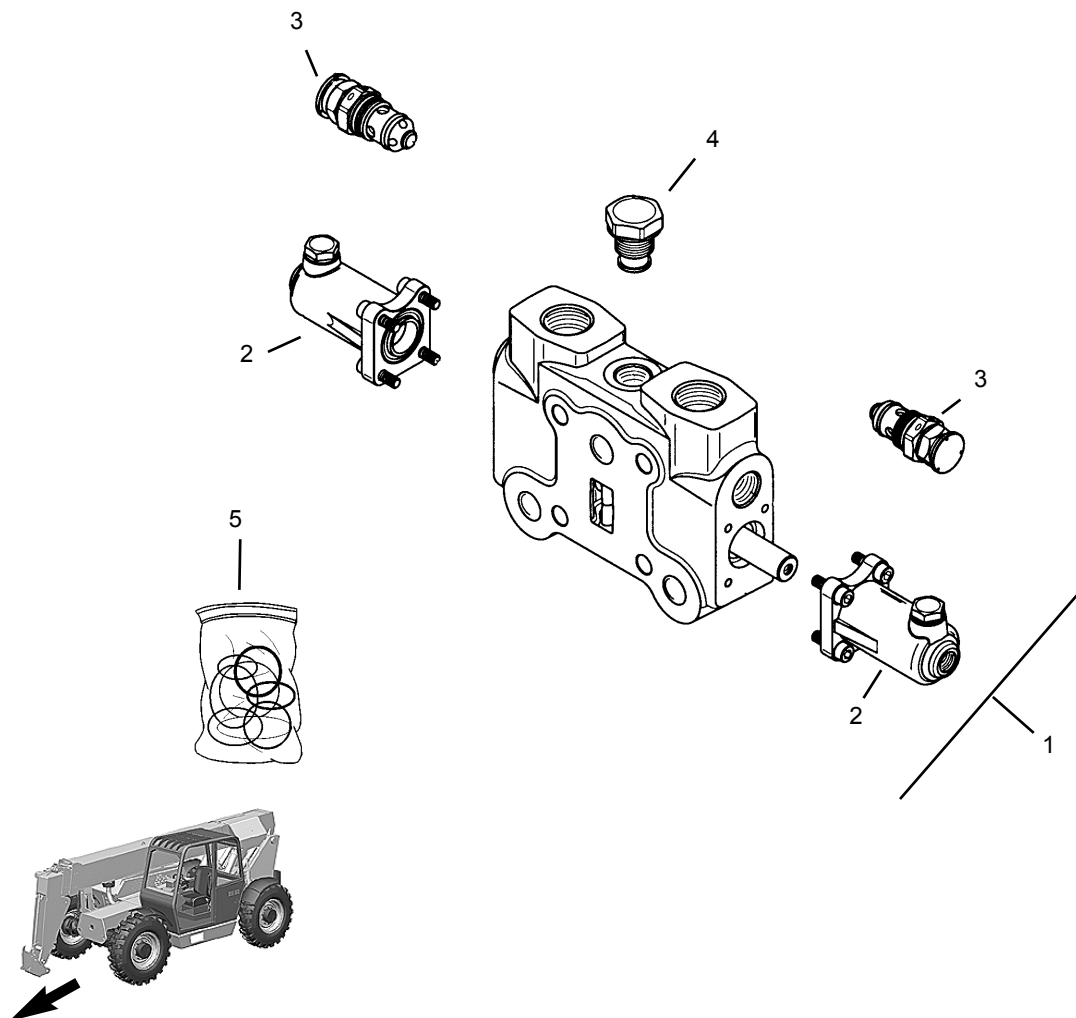
Main Control Valve

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	103054	INLET SECTION	1	12	50380891	COMBINATION VALVE (210 bar) . .	2
		<i>(includes items 16-18)</i>		13	104320	CHECK VALVE	1
	103063	SECTION SEAL KIT <i>(not shown)</i> . .	1	14	103047	PLUG KIT	1
02	103057	WORK SECTION <i>(lift)</i>	1	15	103053	CONTROL KIT	AR
		<i>(includes items 8,9,14,15)</i>		16	103050	PLUG KIT	1
	103066	SECTION SEAL KIT <i>(not shown)</i> . .	1	17	103049	PILOT RELIEF VALVE (210 bar) . .	1
03	103058	WORK SECTION <i>(tilt)</i>	1			<i>(includes copper washers)</i>	
		<i>(includes items 12-13)</i>		18	103051	PLUG KIT, 1-5/16"-12 UNF	1
	103067	SECTION SEAL KIT <i>(not shown)</i> . .	1	19 ^c	105557	COMPLETE SEAL KIT (3-section) .	1
04	103056	WORK SECTION <i>(boom in/out)</i> . . .	1	20		HYDRAULIC VALVE <i>(complete)</i> . . .	1
		<i>(includes items 8-11)</i>			105159	Note a - <i>(shown)</i>	
	103065	SECTION SEAL KIT <i>(not shown)</i> . .	1		210382	Note b - <i>(not shown)</i>	
05	103061	OUTLET SECTION	1				
		<i>(includes item 7)</i>					
06 ^c		TIE ROD KIT	4	a		Does not include auxiliary hydraulics valve section.	
		<i>[includes (1) bolt, (2) nuts and (2) flat washers]</i>		b		Includes auxiliary hydraulics valve section (not shown). Refer to next page for information for the auxiliary hydraulics work section.	
	105556	Three-section valve					
	103059	Four-section valve					
07	103068	PLUG	2				
08	103046	ANTI-CAVITATION VALVE	AR	c		Items included with seal kit are not shown in detail. If machine is equipped with a four-section valve, order the following seal kits: (1) 105557 main valve seal kit and (1) 103087 auxiliary section seal kit.	
09	103052	CHECK VALVE	AR				
10	L99903	WORK PORT RESTRICTOR	1				
11	103048	ANTI-SHOCK VALVE (210 bar)	1				

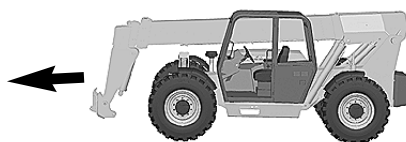
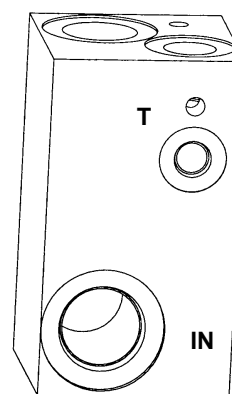
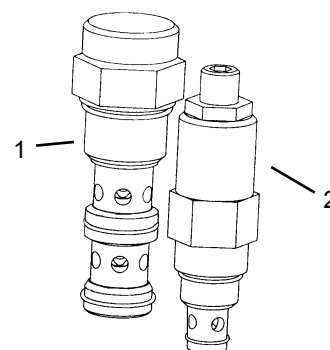
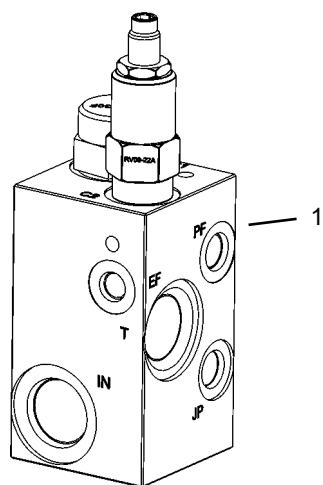
Hydraulic Components

Auxiliary Hydraulic Valve Section

DL Series Dynalift



Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	105165	AUXILIARY HYD. WORK SECT. . . . 1 (includes items 1-4)		a		Includes outer caps, o-rings, bolts, plug and internal spool spring for this work section, does not include o-rings for valves/plugs or the spool.	
02 ^a	103053	HYD. CONTROL KIT 2		b		Items included with seal kit are not shown in detail.	
03 ^c	103086	ANTI-SHOCK VALVE 1		c		Seals/o-rings for this valve are not sold individually; however, they are included with the work section seal kit where this valve is used.	
04 ^c	103052	CHECK VALVE 1					
05 ^b	103087	SEAL KIT 1					
-- ITEMS NOT SHOWN --							
--	103059	TIE ROD KIT (4-section valve) 4 (each kit includes (1) tie rod, (2) nuts and (2) flat washers)					

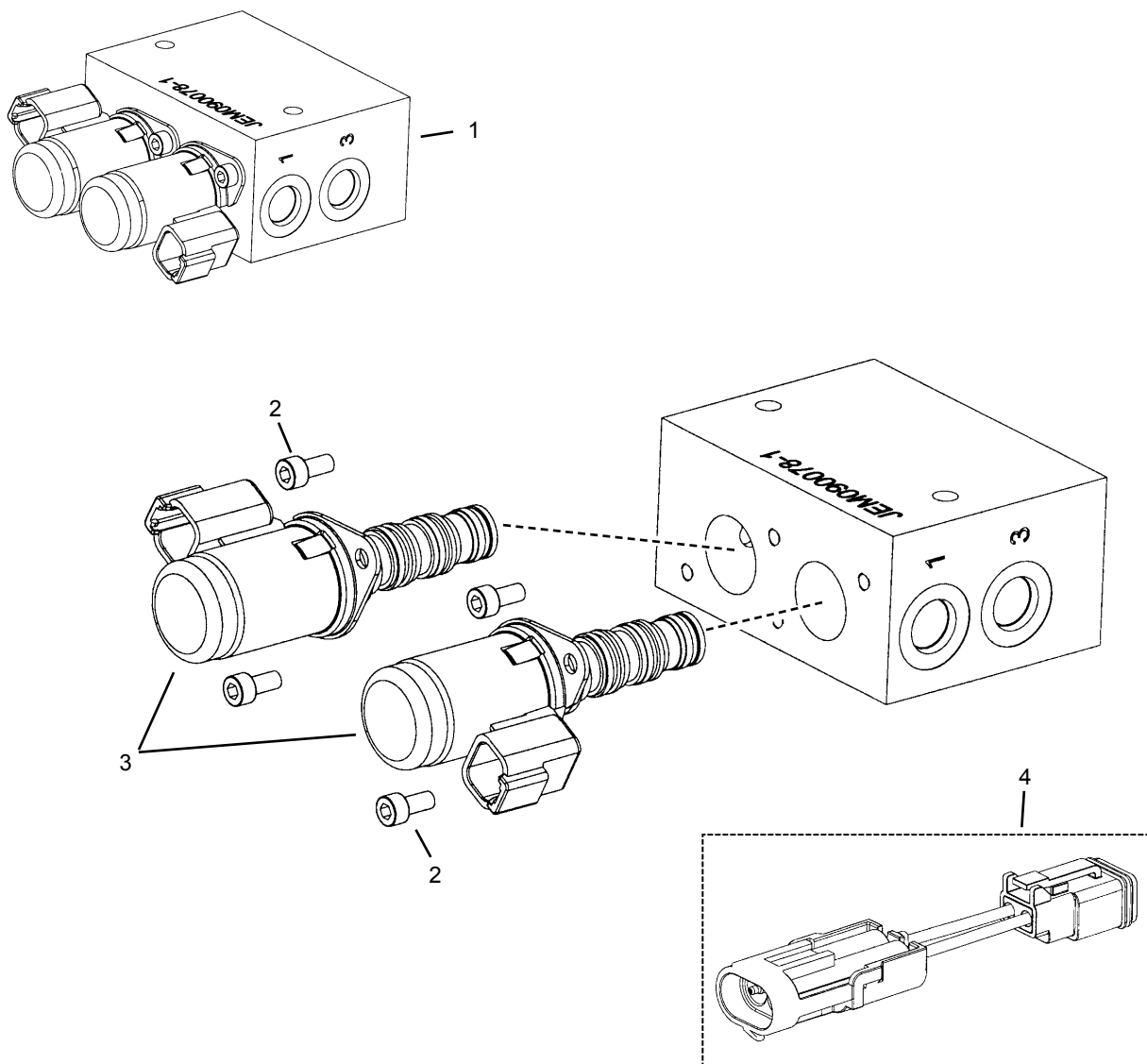


Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	L70229	FLOW DIVIDER..... 1 (includes all items shown)		02	L99927	RELIEF VALVE 1	
02	L99928	PRESSURE REGULATOR 1			L99925	SEAL KIT (seals not shown) 1	
	L99929	SEAL KIT (seals not shown) 1					

Hydraulic Components

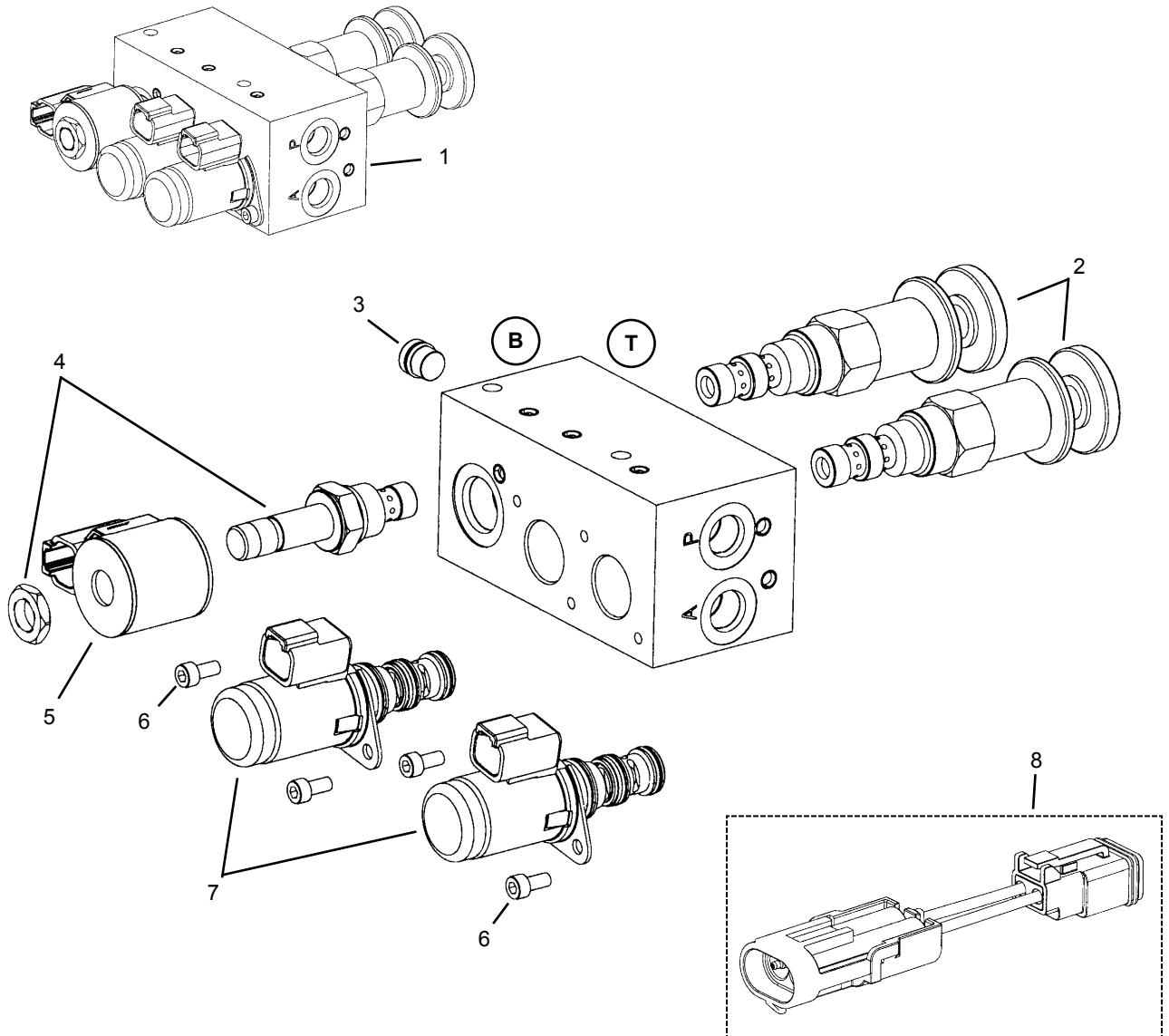
Pilot Manifold - Dual-Function (Two-Button)

DL Series Dynalift



Ref. No.	Part No.	Description	Qty. Req.
01 ^a	106899	PILOT APPLY MANIFOLD. AR (includes all items, except item 4)	
02	240197	SHCS M5.08 x 10 MM. 4	
03	106886	CARTRIDGE, 4-WAY/2-POSITION. 2	
	106887	SEAL KIT (for one cartridge) AR (seals are not shown)	

Ref. No.	Part No.	Description	Qty. Req.
04	211161	WIRE HARNESS ADAPTER. 2	
-- ITEMS NOT SHOWN --			
--	211162	WIRE HARNESS, TILT CONTROL. 1 (Plugs into the frame harness.)	
^a Units equipped with auxiliary hydraulics use two 106899 pilot apply manifolds			



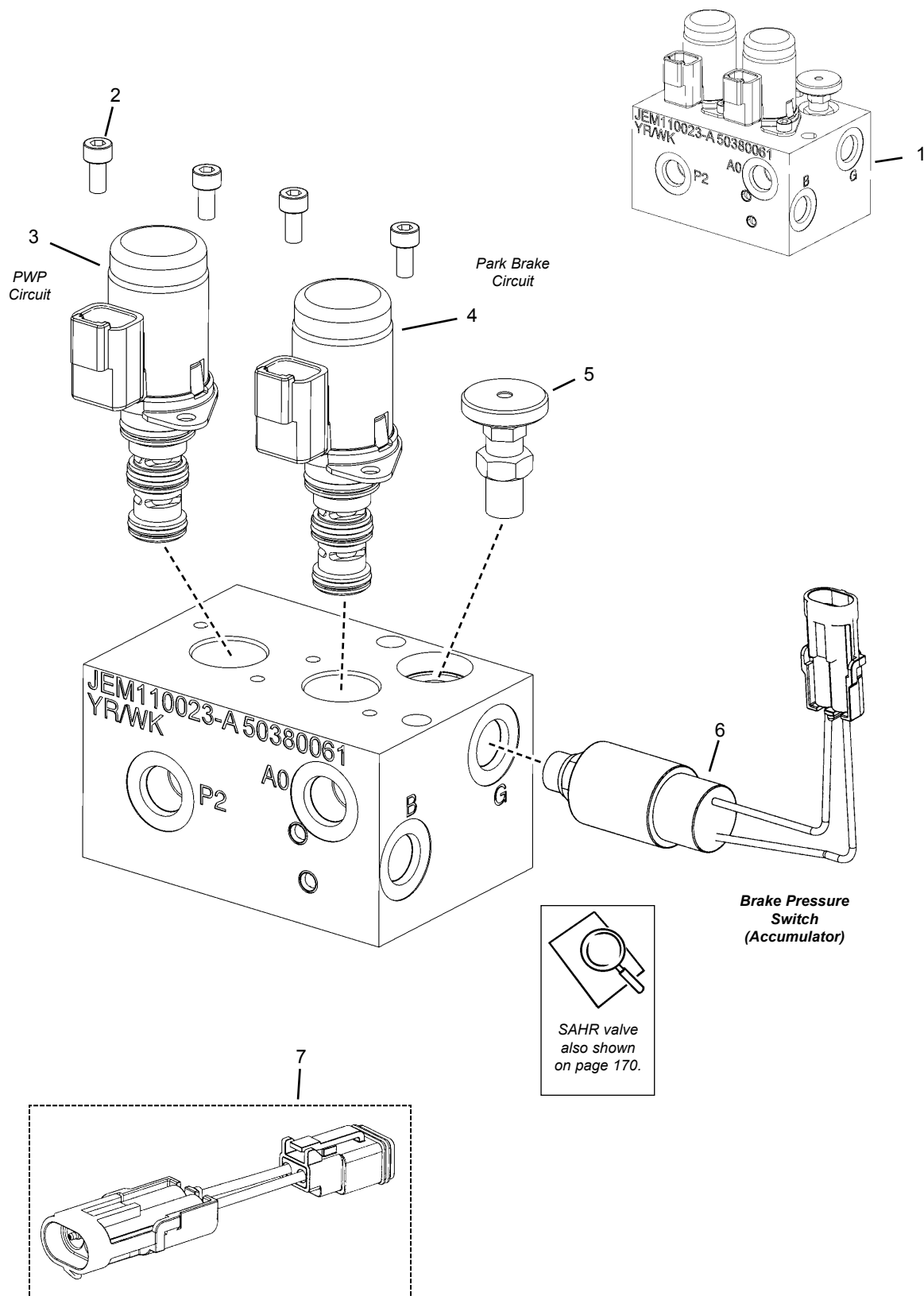
Ref. No.	Part No.	Description	Qty. Req.
01 ^a	106898	PILOT APPLY MANIFOLD AR (includes all items, except item 8)	
02	L500745	PRESSURE CONTROL 2	
	L99911	SEAL KIT (seals are not shown) . . . 2	
03	L99917	PLUG -4 NWD STYLE 1	
04	L500746	VALVE, 2 WAY 1	
	L99924	SEAL KIT, 2-WAY VALVE 1 (seals are not shown)	
05	109892	COIL, 12 VDC SOLENOID 1	

Ref. No.	Part No.	Description	Qty. Req.
06	240197	SHCS M5-.08 x 10 MM 4	
07	244655	CARTRIDGE, 3-WAY/2-POS. 2	
	240202	SEAL KIT (seals are not shown) . . . 2	
08	211161	WIRE HARNESS ADAPTER 3	

-- ITEMS NOT SHOWN --

--	50380194	WIRE HARNESS, TILT CONTROL . 1 (Plugs into the frame harness.)	
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^a Units equipped with auxiliary hydraulics use
(2) 106898 pilot apply manifolds



DL7/ DL9/ DL11/ DL12**Hydraulic Components*****SAHR (Spring Applied Hydraulic Release) Valve***

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	50380061	SAHR VALVE. 1 <i>(includes items 1-5)</i>	1	05	106888	NEEDLE VALVE 1	1
02	240197	SHCS M5.08 x 10 MM. 4	4	06	L70008	BRAKE PRESSURE SWITCH 1 <i>(not included with item 1)</i>	1
03	50380062	CARTRIDGE, 3-WAY/2-POSITION. 1	1	07	211161	WIRE HARNESS ADAPTER..... 2 <i>(not included with item 1)</i>	2
	240202	SEAL KIT <i>(seals not shown)</i> 1	1				
04	244655	CARTRIDGE, 3-WAY/2-POSITION. 1	1				
	240202	SEAL KIT <i>(seals not shown)</i> 1	1				

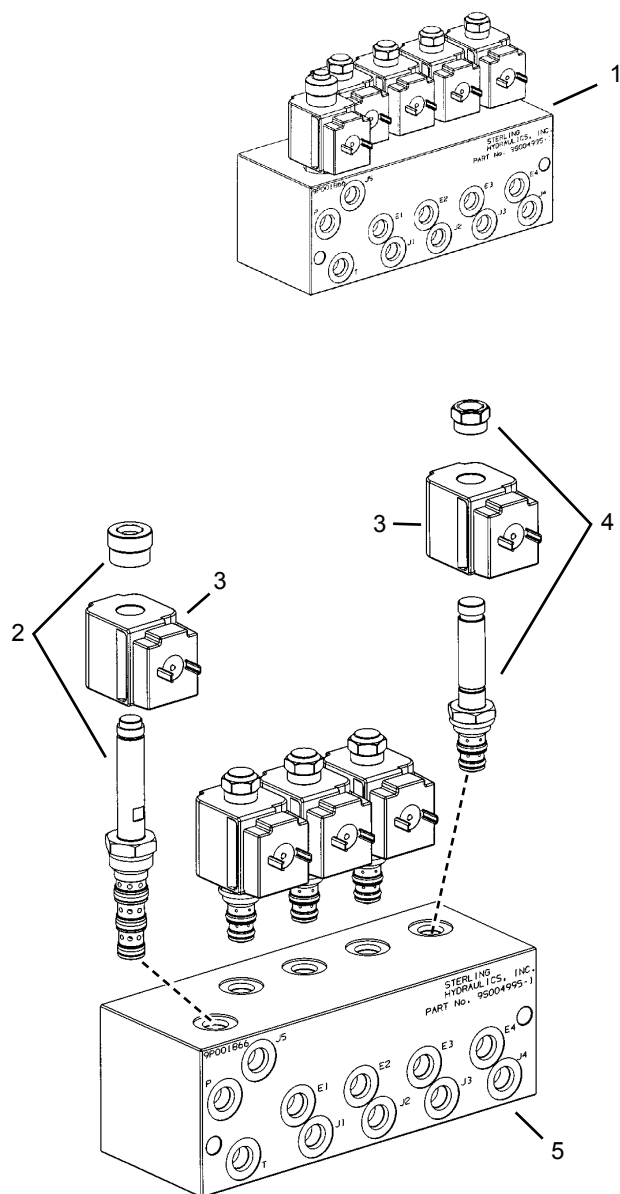
Hydraulic Components

Radio Remote Manifold

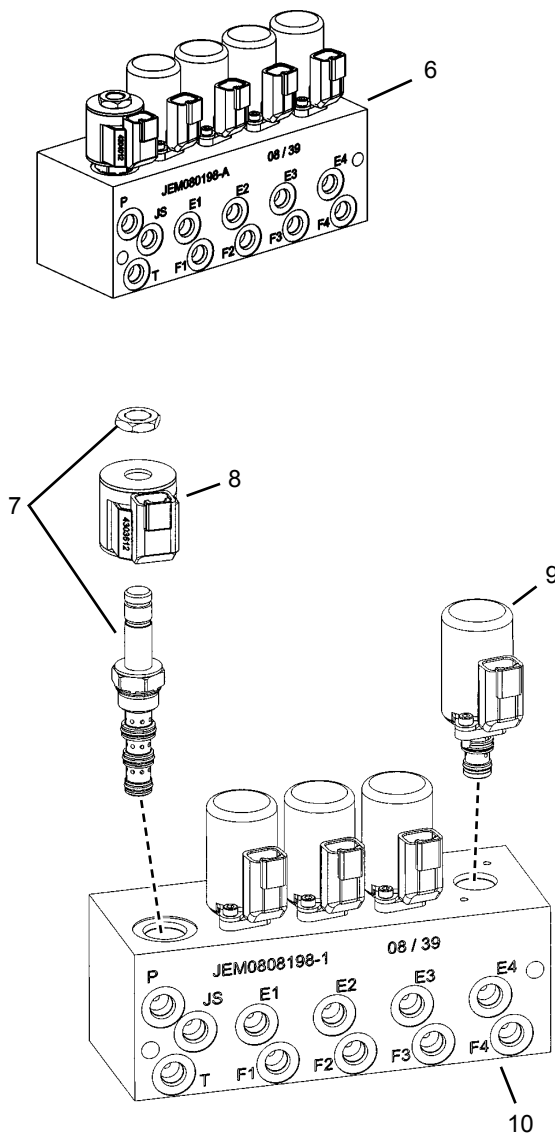
DL Series Dynalift



NOTE: Before ordering, verify the manifold on the machine matches with the one in the illustration.



Early Style



Late Style

DL7/ DL9/ DL11/ DL12

Hydraulic Components

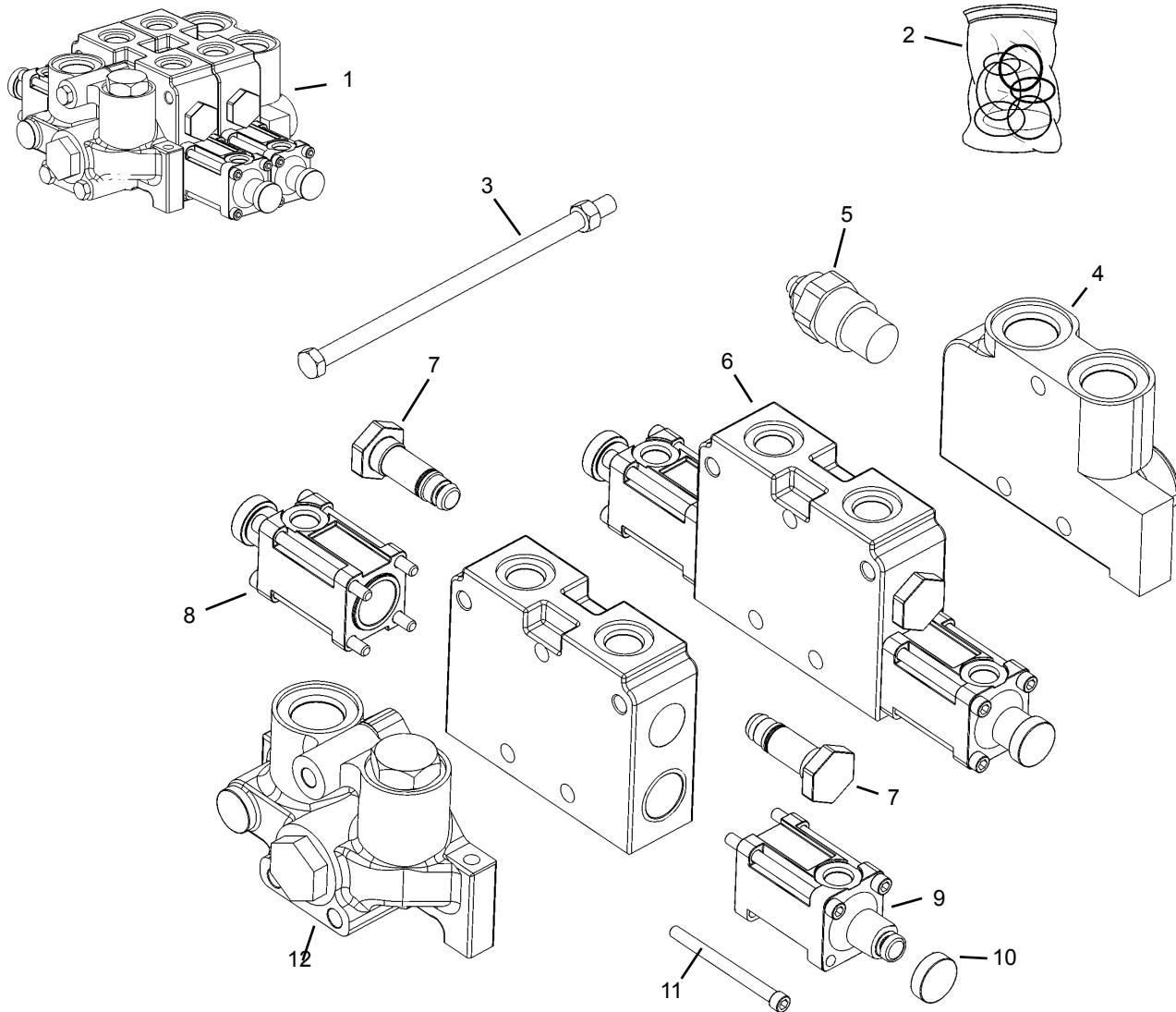
Radio Remote Manifold

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
-- EARLY-STYLE --				-- LATE-STYLE --			
01	103413	RADIO REMOTE MANIFOLD	1	06	50380273	COMPLETE VALVE	1
		<i>(includes all items shown and listed)</i>				<i>(includes all items shown and listed)</i>	
02	103508	2/4 WAY SOLENOID VALVE	1	07	50220634	2/4 WAY SOLENOID VALVE	1
	103511	SEAL KIT FOR VALVE	1		50220635	SEAL KIT FOR VALVE	1
03	103510	12 VDC COIL (DIN CONN.)	5	08	104736	12 VDC COIL (WEATHERPAK).	1
04	103509	PROPORTIONAL PRESS. VALVE	4	09	50220631	PROPORTIONAL PRESS. VALVE	4
	103512	SEAL KIT FOR VALVE	AR		50220632	SEAL KIT <i>(one per valve)</i>	4
05	NSS	MANIFOLD	1		50220633	SCREWS, M4-0.7x12mm	8
						<i>(not shown)</i>	
-- ITEMS NOT SHOWN --				10	NSS	MANIFOLD	1
--	103514	SHUTTLE VALVE	4				
--	103513	SEAL KIT FOR VALVE	AR				

Hydraulic Components

Outrigger Valve

DL Series Dynalift

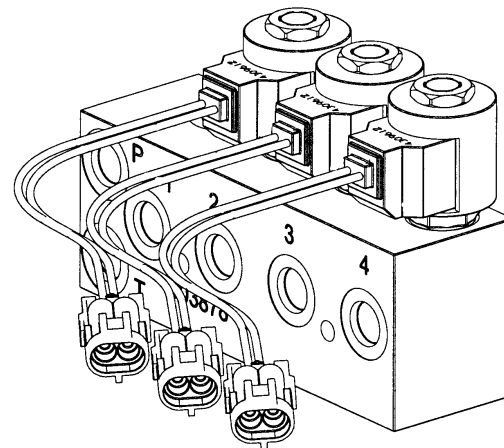
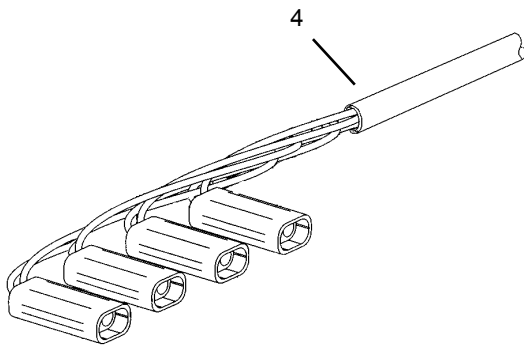
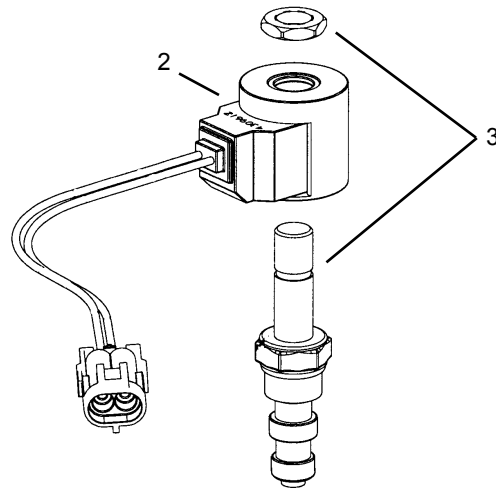
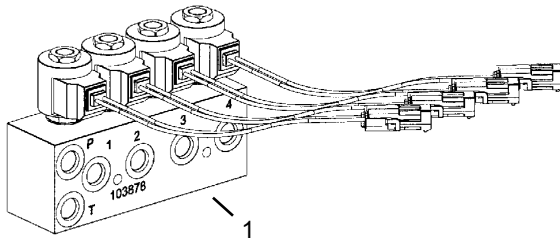


Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	L70528	OUTRIGGER VALVE 1 (includes all items shown)		09	L500135	HRO ACTUATOR "A" PORT 2 (does not include item 11)	
02	L500127	SECTION SEAL KIT 2			L98894	SEAL KIT, ACTUATOR AR	
03	L500126	STUD ASY. KIT 1 (includes three bolts and three nuts)		10	L500300	DUST BOOT AR	
04 ^a	NSS	INLET COVER HOUSING 1		11	L500961	BOLT (not included with 8 or 9) . . 16	
05	L500129	RELIEF CARTRIDGE 1			654022	LOCK WASHER (not show) 16 (not included with 8 or 9)	
	L96580	RELIEF SEAL KIT 1		12	L500133	OUTLET COVER HOUSING 1	
06	L500131	WORK SECTION (includes 7-11) . . 2					
07	L500132	LOAD CHECK PLUG 4					
08	L500134	HRO ACTUATOR "B" PORT 2 (does not include item 11)					
	L98894	SEAL KIT, ACTUATOR AR					

^a No longer available from the supplier.



NOTE: Items in seal kits are not shown.

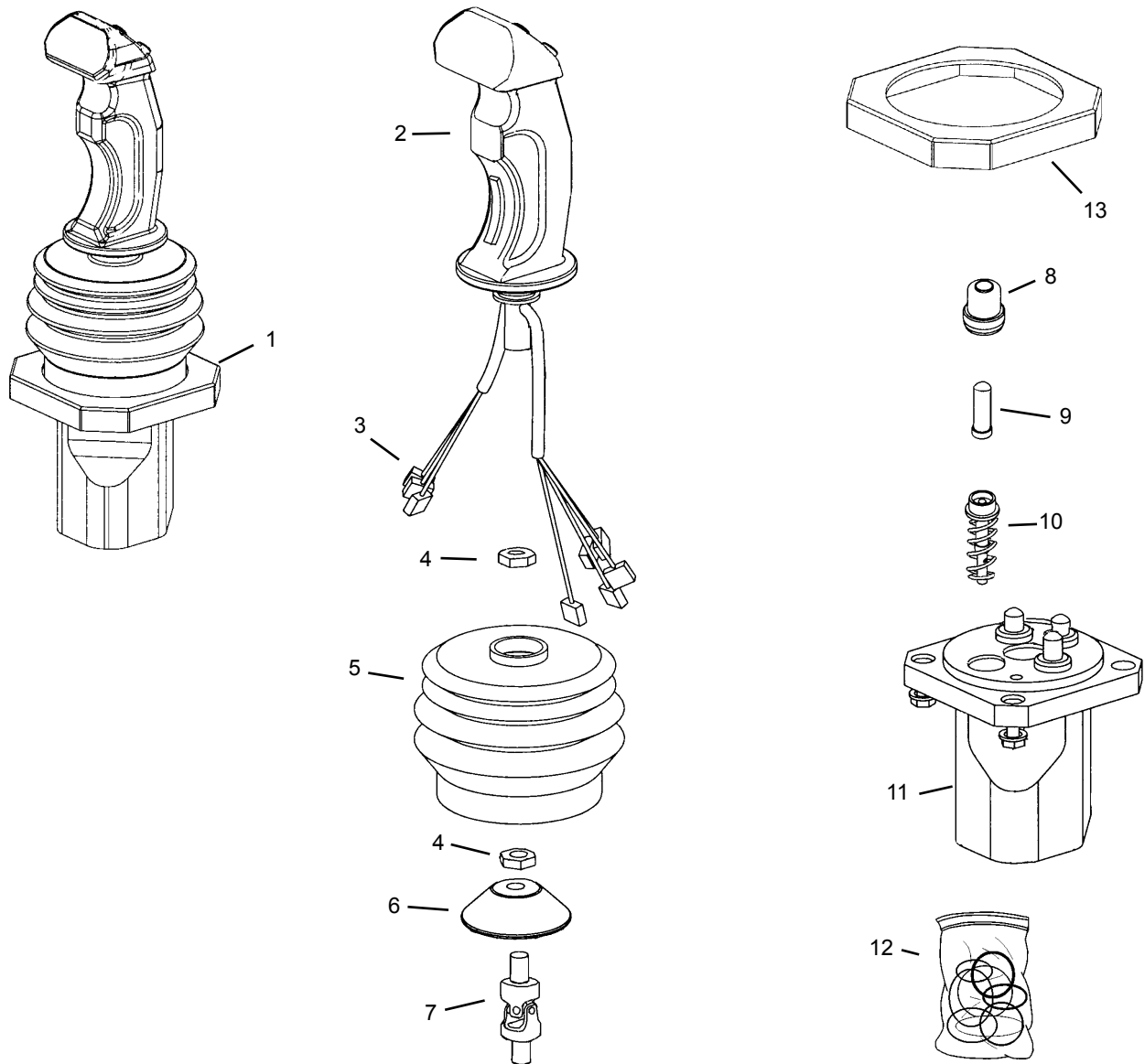


Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	103878	OUTRIGGER MANIFOLD 1 (includes items 1-3)		03	L99912	SOLENOID VALVE 4	
02	104016	E-COIL 12VDC 4		04	L70651	OUTRIGGER WIRE HARNESS . . . 1	

Hydraulic Components

Tri-Function (Four-Button) Controller

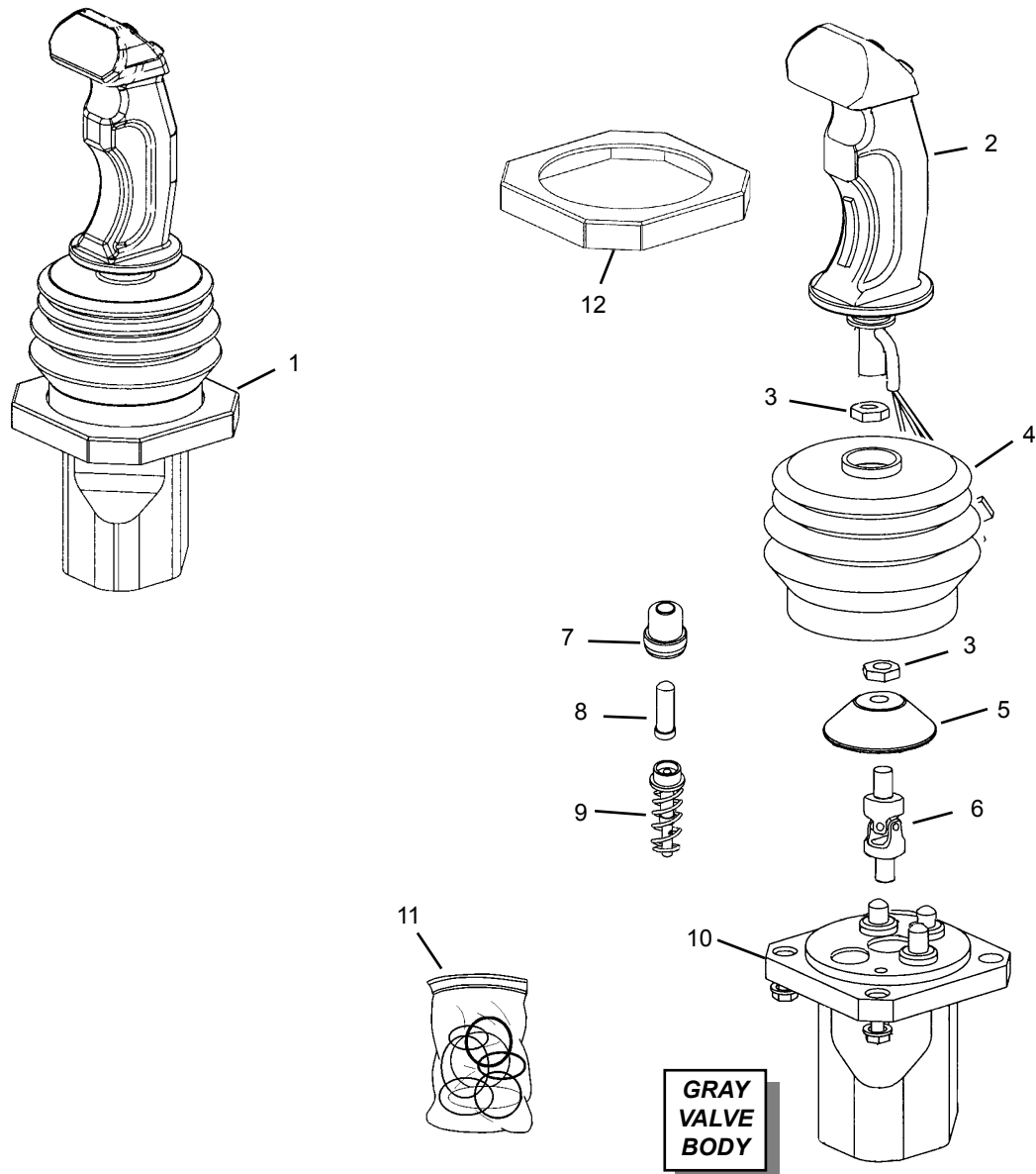
DL Series Dynalift



Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	104083	JOYSTICK 4-BUTTON/TRIGGER..	1	09	L500690	HPV SPINDLE 10mm	4
02	L500371	HANDLE W/4 BUTTONS	1	10	104223	PILOT SPRING PACK.....	4
03	L62761	WIRE CONNECTOR.....	8			(CO59 Springs)	
04	L500688	NUT M10 UNI	2	11	NSS	BODY ASSEMBLY.....	1
05	L500656	RUBBER BOOT	1	12	L500653	SEAL REPAIR KIT	1
06	L500689	SELECTOR DISC	1	13	104304	BEZEL, JOYSTICK	1
07	L500652	UNIVERSAL JOINT.....	1				
08	L500692	SPINDLE GUIDE ASSEMBLY.....	4				



NOTE: Items in seal kits are not shown.



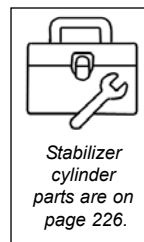
Ref. No.	Part No.	Description	Qty. Req.
01	104084	JOYSTICK 2 BUTTON.....	1
02	L500357	HANDLE W/2 BUTTONS	1
03	L500688	NUT M10 UNI	2
04	L500656	RUBBER BOOT	1
05	L500689	SELECTOR DISC	1
06	L500652	UNIVERSAL JOINT	1
07	L500692	SPINDLE GUIDE ASSEMBLY.....	4
08	L500690	HPV SPINDLE 10mm	4

Ref. No.	Part No.	Description	Qty. Req.
09	104223	PILOT SPRING PACK	4
		(CO59 Springs)	
10	NSS	BODY ASSEMBLY.....	1
11	L500653	SEAL REPAIR KIT	1
12	104304	BEZEL, JOYSTICK	1

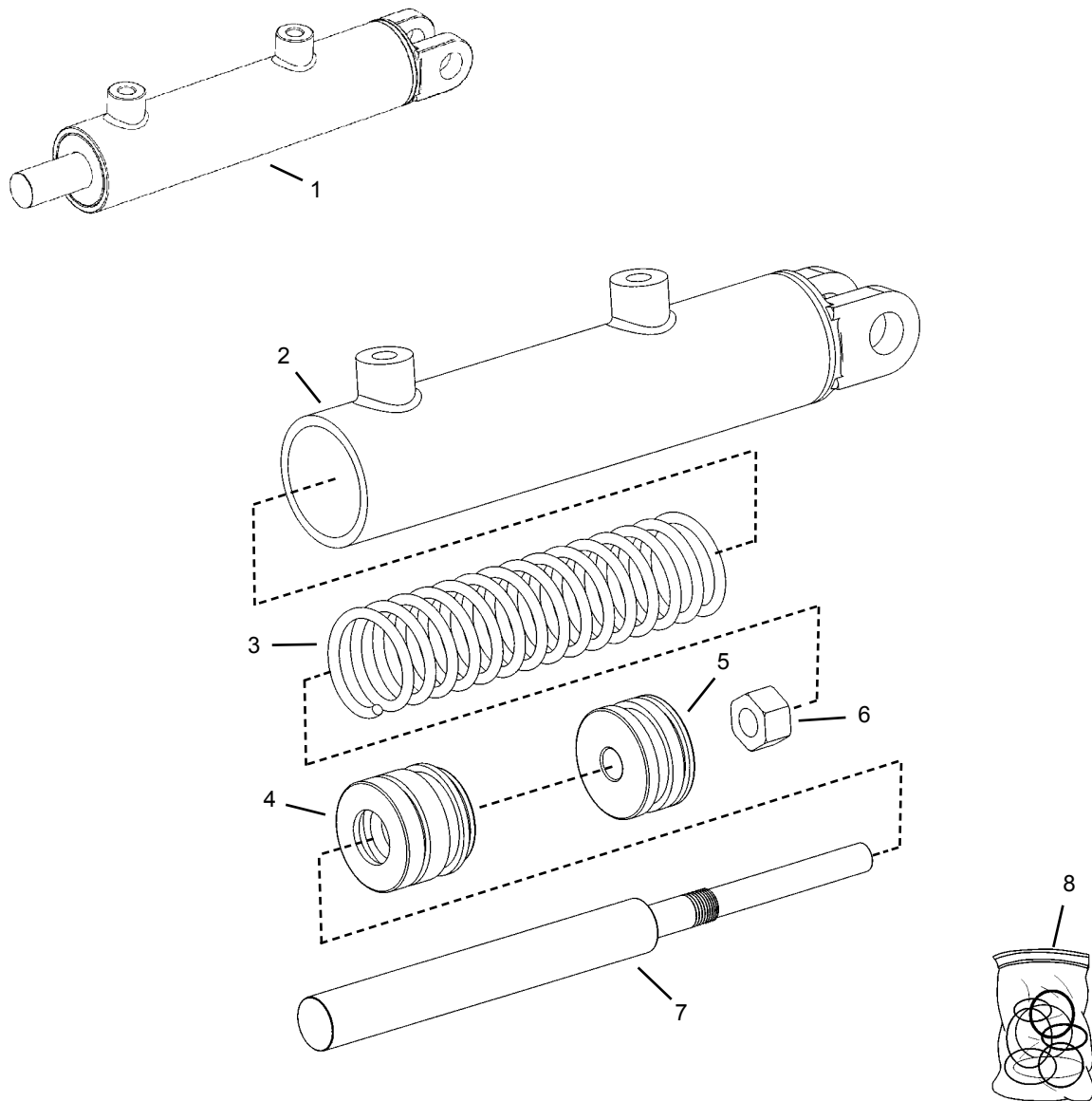


NOTE: Items in seal kits are not shown.

DL Series Dynalift



50960020/CP0114



Ref. No.	Part No.	Description	Qty. Req.
01	L71425	HYDRAULIC LOCK CYLINDER . . .	2
02	NSS	CYLINDER TUBE WELDMENT . . .	1
03	L500725	DIE SPRING, MED 2" x 3.69" x 8" .	1
04	L500722	HEAD GLAND	1
05	L500721	PISTON	1

Ref. No.	Part No.	Description	Qty. Req.
06	L500724	9/16"-18 UNF LOCKNUT.	1
07	L500723	CYLINDER ROD	1
08	L500726	SEAL KIT	1

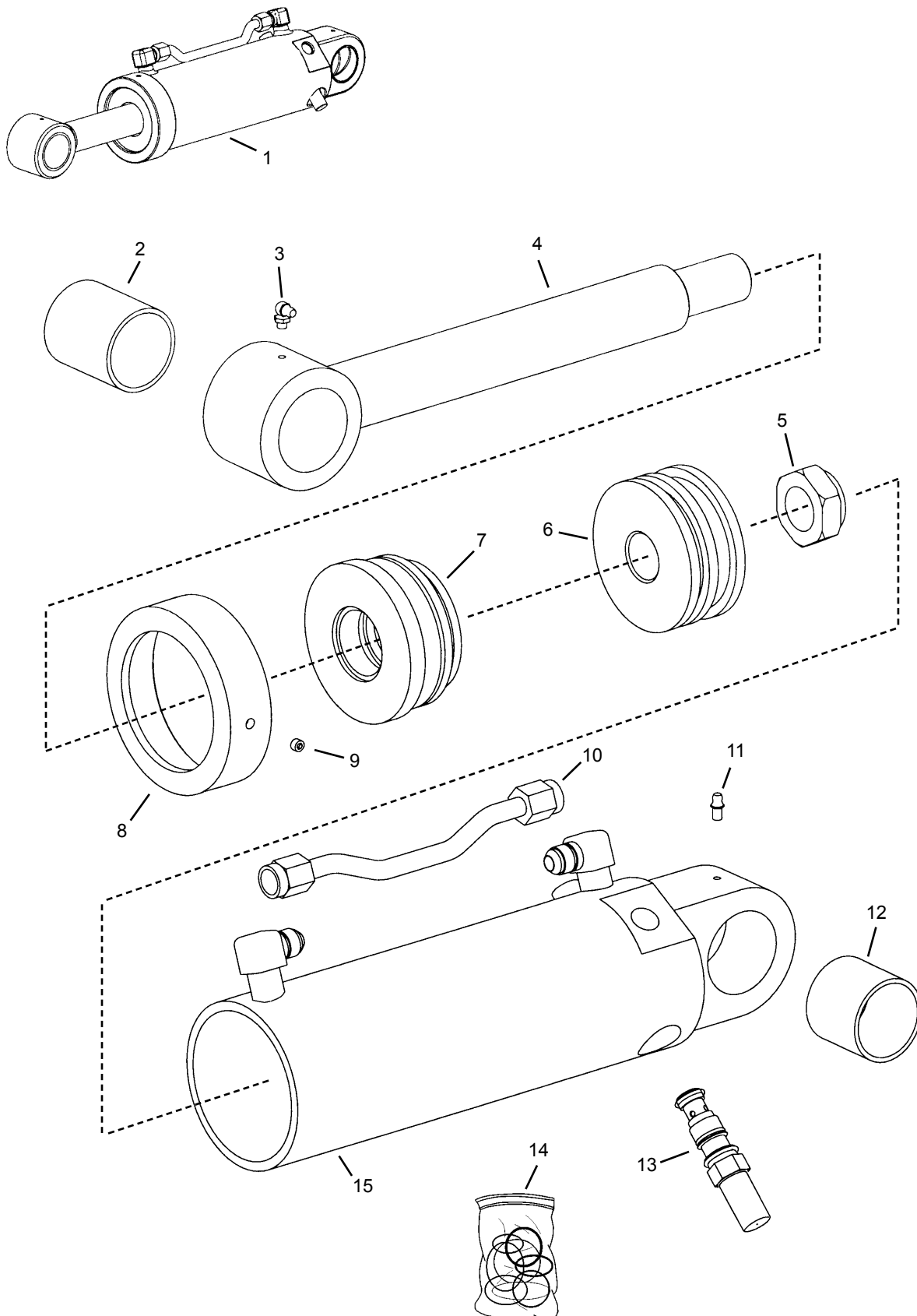


NOTE: *Items in seal kits are not shown.*

Hydraulic Components

Frame Level Cylinder

DL Series Dynalift



Frame Level Cylinder

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	L63015	FRAME LEVEL CYLINDER.....	1	10	L98509	OIL LINE TUBE ASSEMBLY.....	1
02	L63016	BUSHING 2.0"x2.25"x2.5".....	1	11	L10465	1/4"-28 GREASE ZERK.....	1
03	L10057	1/4"-28 GREASE ZERK STR.....	1	12	L64367	BUSHING 2.0"x2.25"x2.0".....	1
04	L98503	ROD.....	1	13	L70495	COUNTER BALANCE VALVE.....	2
05	L99405	1-1/4"-12 UNF LOCKNUT.....	1		L97889	SEAL KIT (CBV).....	1
06	L98550	PISTON.....	1	14	L98506	CYLINDER SEAL KIT.....	1
07	L98507	HEAD GLAND.....	1	15	NSS	CYLINDER TUBE.....	1
08	L98547	HEAD GLAND CAP.....	1				
09	L99857	5/16"-18x1/4" SET SCREW.....	1				

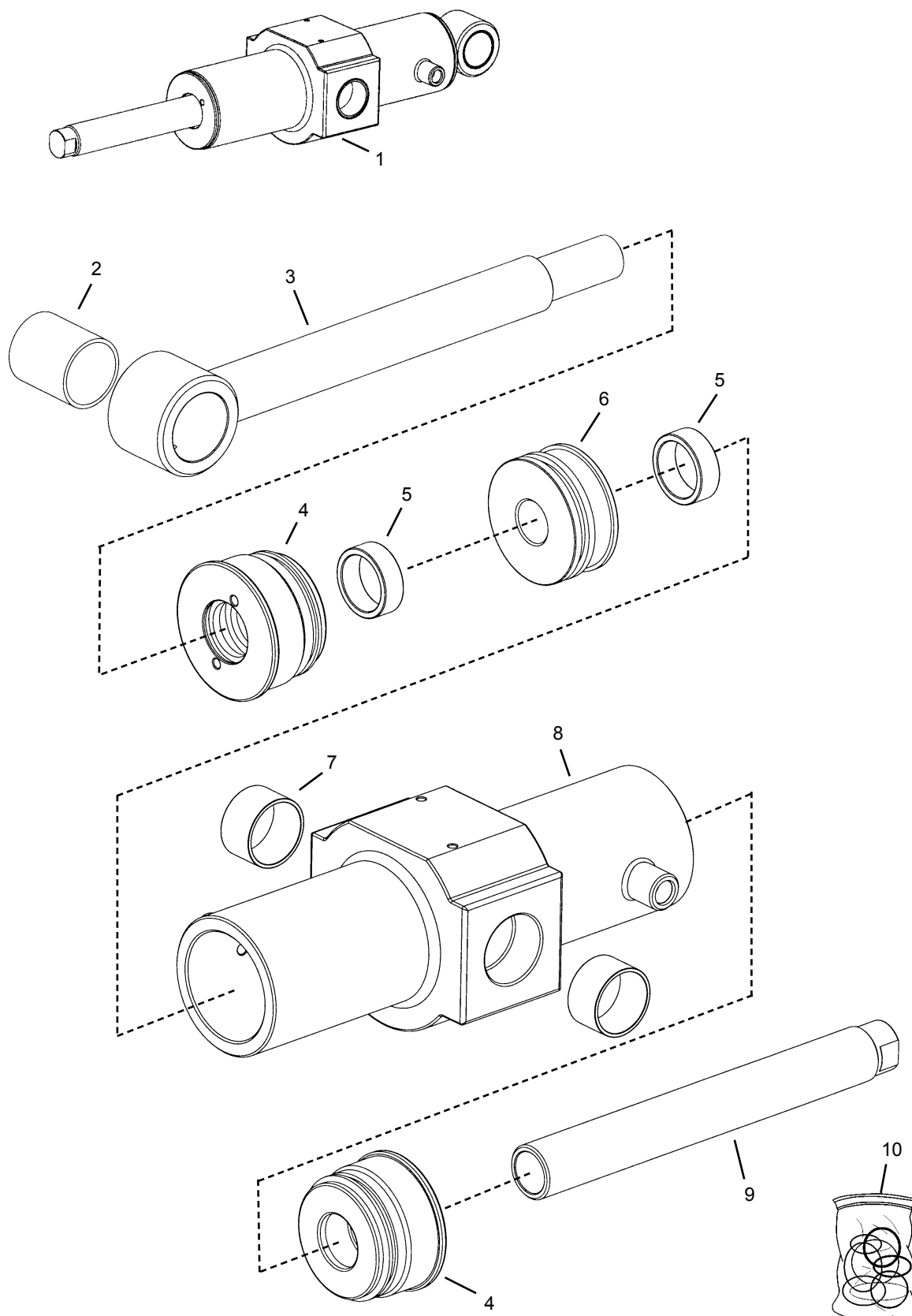


NOTE: *Items in seal kits are not shown.*

Hydraulic Components

Frame Stabilizer Cylinder

DL Series Dynalift



Frame Stabilizer Cylinder

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	L70358	FRAME STABILIZER CYLINDER . .	1	07	L69774	BUSHING	2
02	L69138	BUSHING	1	08	NSS	TUBE	1
03	L99934	ROD	1	09	L99935	CYLINDER ROD	1
04	L99937	HEAD GLAND	2	10	L99942	CYLINDER SEAL KIT	1
05	L99936	ROD SPACER	2				
06	L99938	PISTON	1				

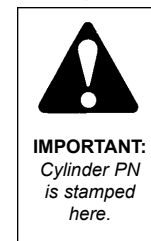
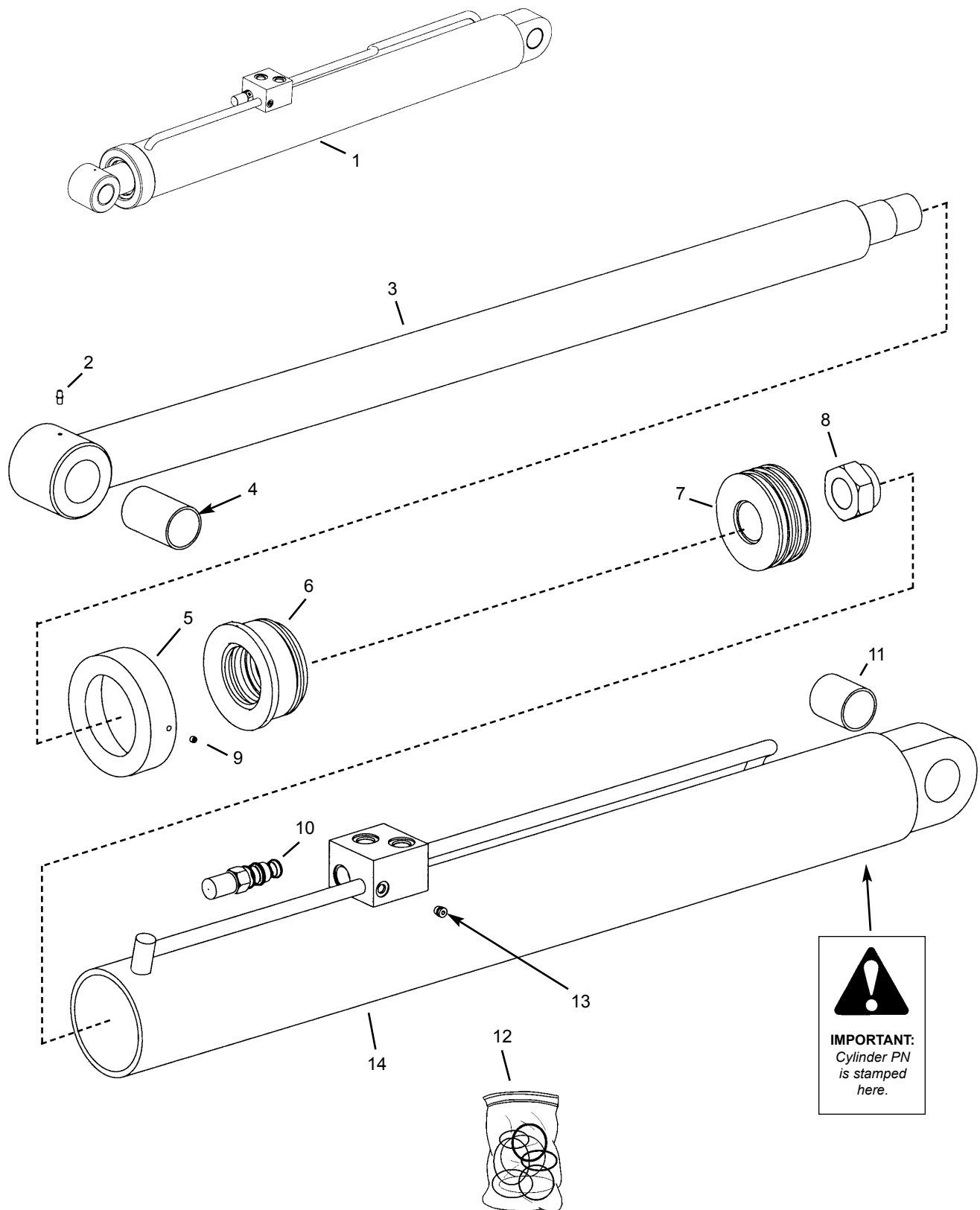


NOTE: *Items in seal kits are not shown.*

Hydraulic Components

Boom Lift Cylinder

DL Series Dynalift



Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	L69135	LIFT CYLINDER	2	10	L70502	CBAL VALVE	1
02	L10465	1/4"-28 GREASE ZERK.....	1		L96838	CB VALVE SEAL KIT.....	1
03	L99853	ROD	1	11	L69138	BUSHING (<i>base end</i>)	1
04	L69142	BUSHING (<i>rod end</i>).....	1	12	L99849	CYLINDER SEAL KIT	1
05	L99856	HEAD GLAND CAP.....		13	L99917	PLUG -4	1
06	L99854	HEAD GLAND	1	14	NSS	CYLINDER TUBE	1
07	L99851	PISTON	1				
08	L99122	1-3/4"-12 UNF LOCKNUT	1				
09	L99857	5/16"-18x1/4" SET SCREW.....	1				



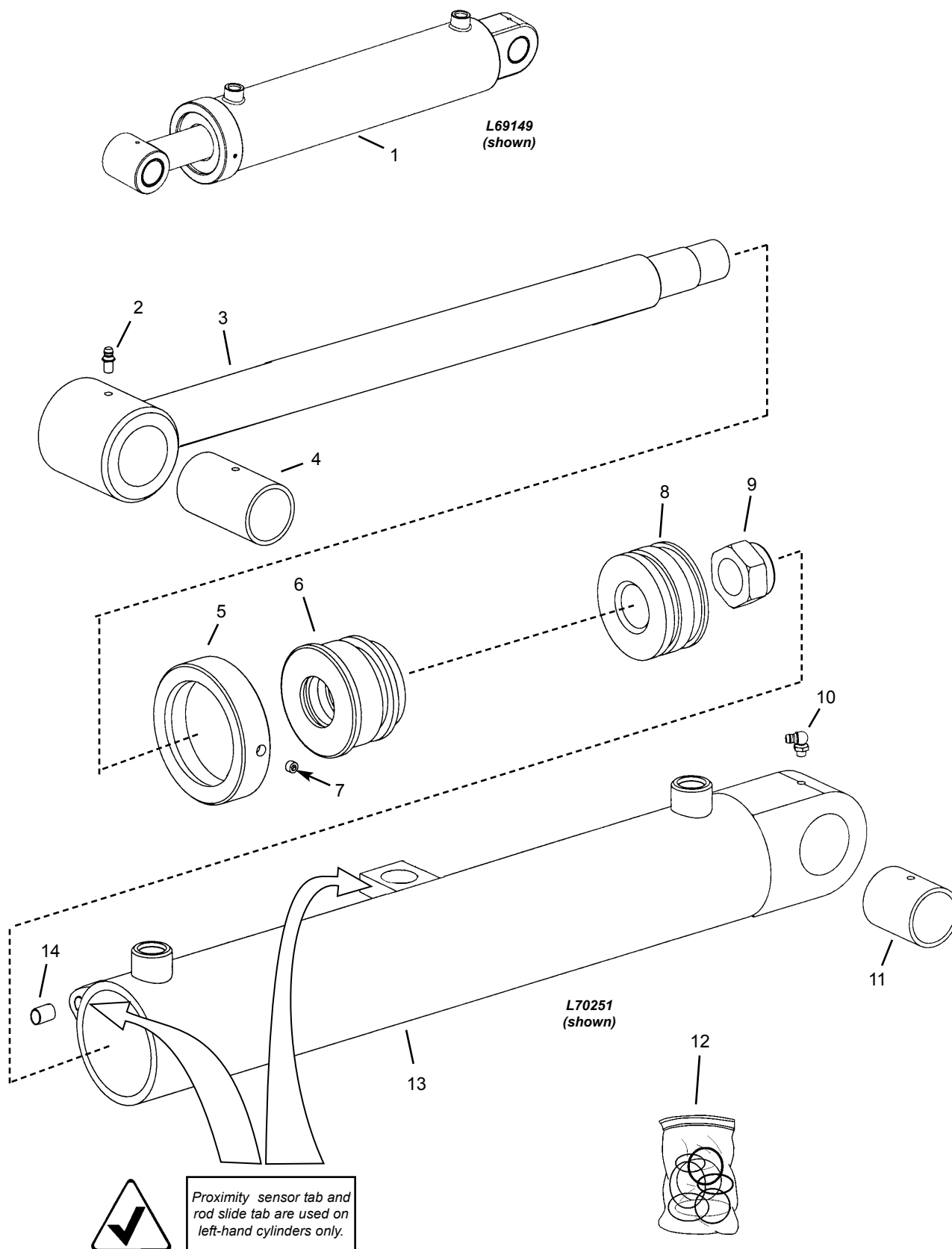
NOTE: Items in seal kits are not shown.



IMPORTANT: Before ordering a replacement cylinder, or parts, be sure to verify that the cylinder part number L69135 is stamped in the cylinder in the area shown on the facing page.



NOTE: Quantities are for one cylinder—the machine uses two cylinders.



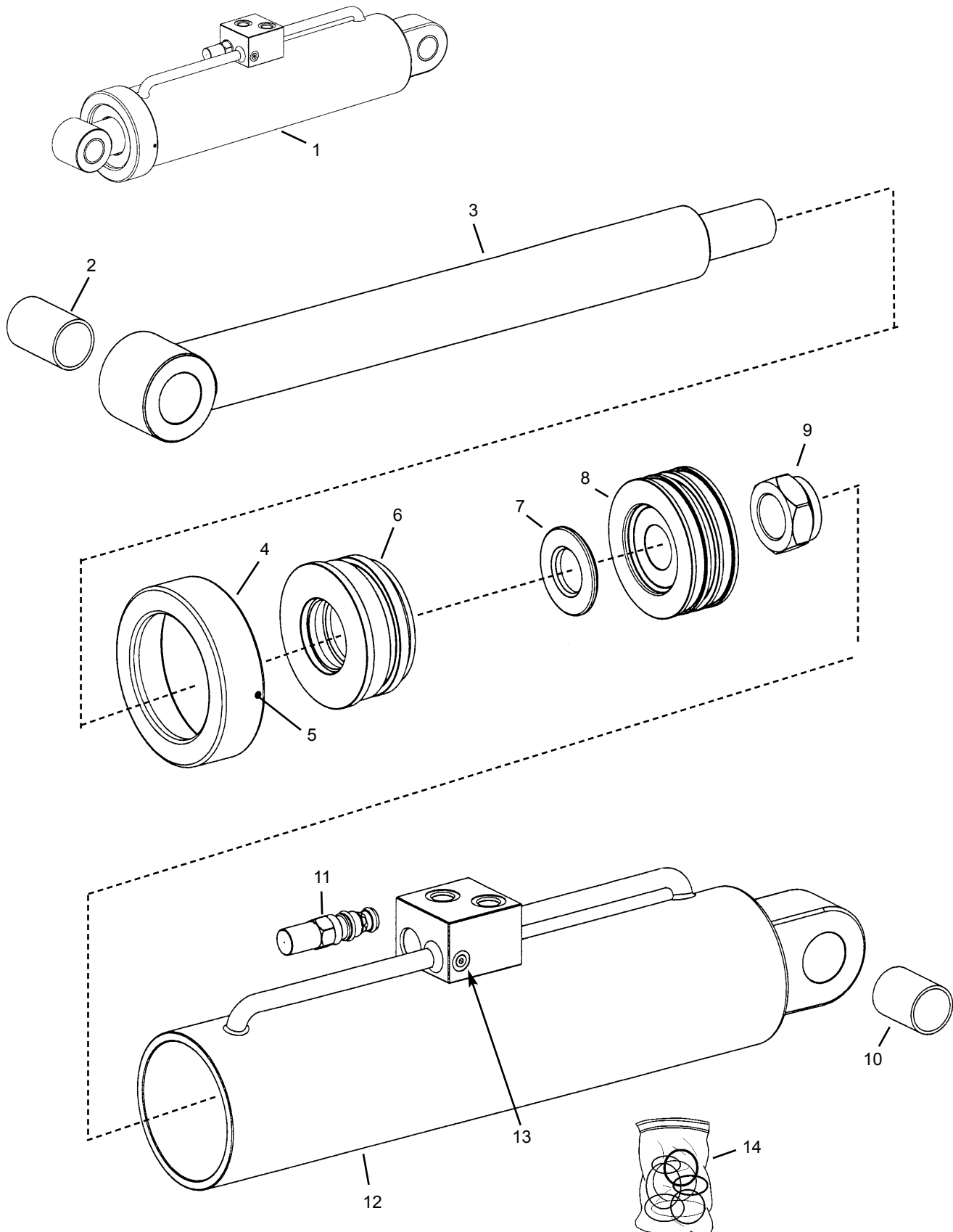
Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	L69149	SLAVE CYLINDER (<i>right</i>)	1	09	137221	1-3/8"-12 UNF LOCKNUT	1
	L70251	SLAVE CYLINDER (<i>left</i>)	1	10	L10057	1/4"-28 GREASE ZERK 90°	1
02	L10465	1/4"-28 GREASE ZERK STR	1	11	L63017	BUSHING (<i>base end</i>)	1
03	L99865	ROD	1	12	L99868	CYLINDER SEAL KIT	1
04	L63018	BUSHING (<i>rod end</i>)	1	13	NSS	CYLINDER TUBE	1
05	L98547	HEAD GLAND CAP	1	14 ^a	L48179	BUSHING (<i>rod slide tab</i>)	1
06	L99866	HEAD GLAND	1				
07	L99857	5/16"x1/4" SET SCREW	1				
08	L99864	PISTON	1				



NOTE: Items in seal kits are not shown.



NOTE: Quantities are for one cylinder—the machine uses two cylinders.



Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	L69144	TILT CYLINDER	1	10	L69127	BUSHING (<i>base end</i>)	1
02	L69132	BUSHING (<i>rod end</i>)	1	11	L70502	COUNTER-BALANCE VALVE	1
03	L99886	ROD (<i>includes item #2</i>)	1		L96838	CB VALVE SEAL KIT	1
04	L99856	HEAD GLAND CAP	1	12	NSS	CYLINDER TUBE	1
05	137220	5/16"-18x5/16" SET SCREW	1	13	L99917	PLUG -4.	1
06	L99888	HEAD GLAND	1	14	L99883	CYLINDER SEAL KIT	1
07	L99852	THRUST WASHER	1				
08	L99885	PISTON	1				
09	L99122	1-3/4" UNF LOCKNUT	1				

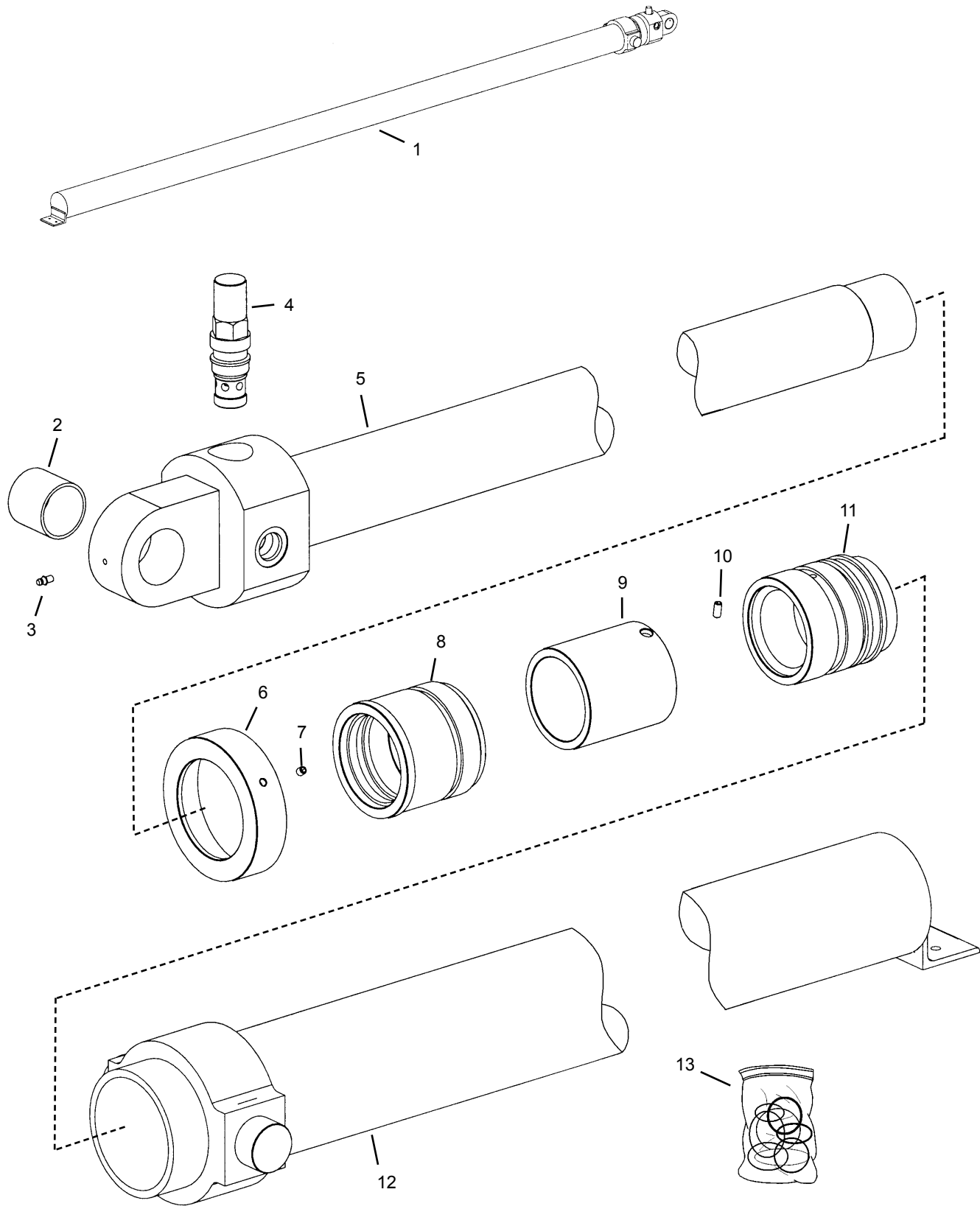


NOTE: *Items in seal kits are not shown.*

Hydraulic Components

Boom Extend Cylinder - Three-Section Boom

DL Series Dynalift



Boom Extend Cylinder - Three-Section Boom

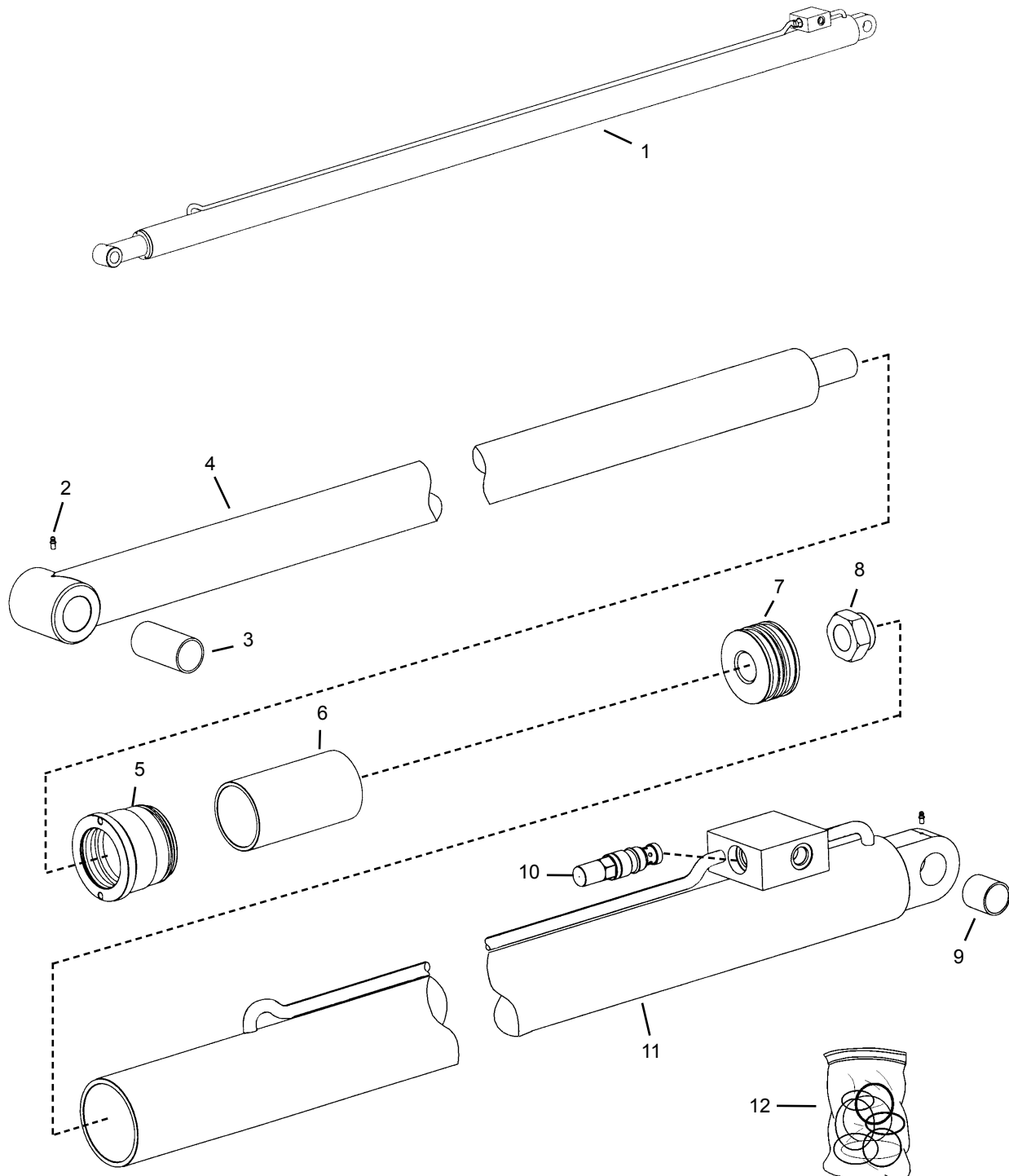
Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01		BOOM EXTEND CYLINDER. 1		06	L99056	HEAD GLAND CAP. 1	
	L69136	40' High Boom		07	137220	5/16"-18x5/16" SET SCREW. 1	
	L69156	44' High Boom		08	L99053	HEAD GLAND. 1	
02	L64367	BUSHING (rod end). 1		09	L99877	ROD SPACER. 1	
03	L10465	1/4"-28 GREASE ZERK. 1		10	L99875	5/16"-18x5/8" SET SCREW. 1	
04	L70274	COUNTER BALANCE VALVE. 1		11	L99874	PISTON. 1	
	L99943	CBAL VALVE SEAL KIT. 1		12	NSS	CYLINDER TUBE. 1	
05		ROD. 1		13	L99873	CYLINDER SEAL KIT. 1	
	L99878	40' High Boom					
	L99882	44' High Boom					

**NOTE:** Items in seal kits are not shown.

Hydraulic Components

Boom Extend Cylinder - Four-Section Boom

DL Series Dynalift



Boom Extend Cylinder - Four-Section Boom

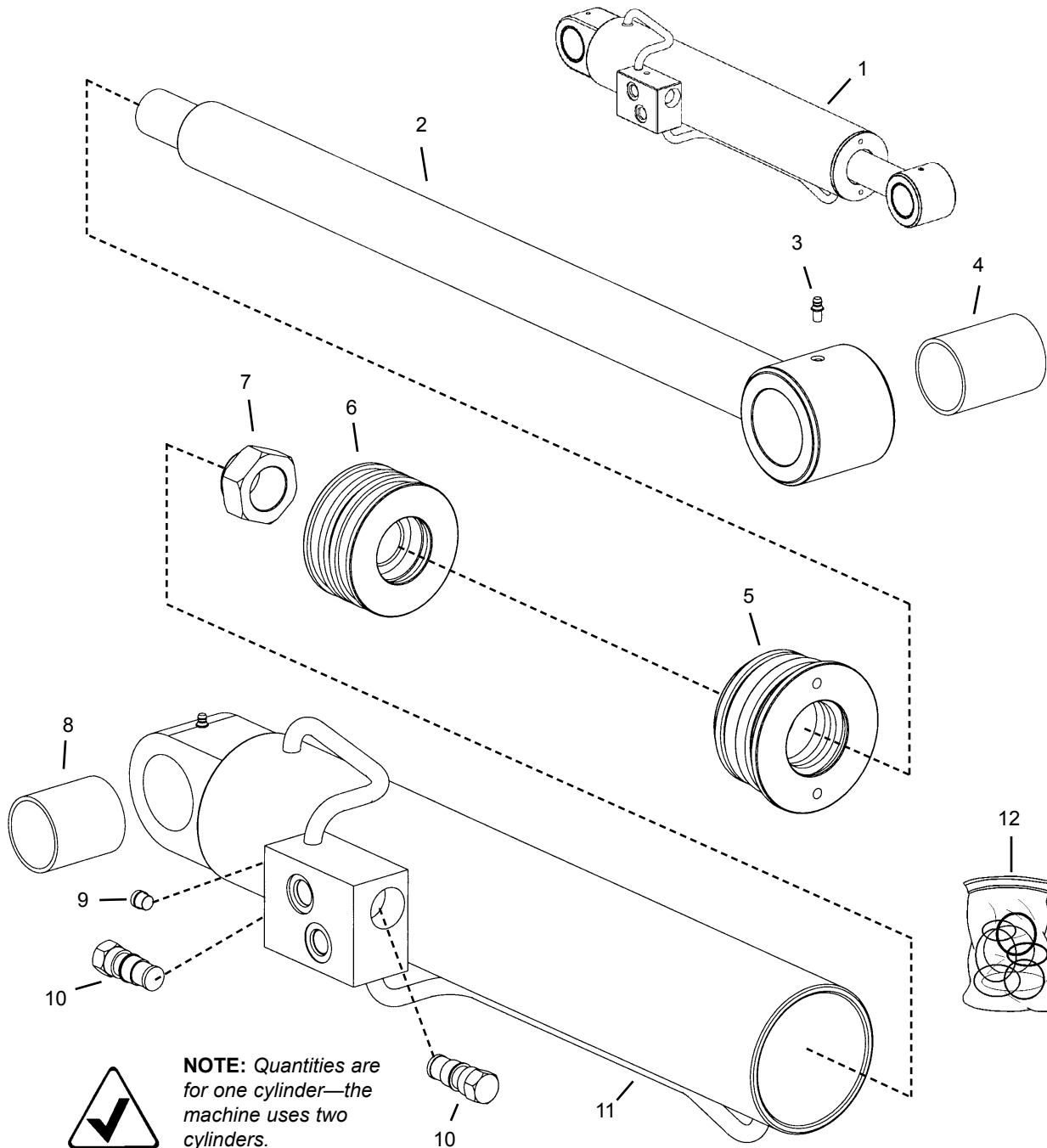
Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	L71023	BOOM EXTEND CYLINDER.....	1	08	L99122	1-3/4"-12 UNF LOCKNUT.....	1
02	L10465	1/4"-28 GREASE ZERK.....	2	09	L67120	BUSHING (<i>base end</i>).....	1
03	L67119	BUSHING (<i>rod end</i>).....	1	10	L70274	COUNTER-BALANCE VALVE.....	1
04	L500752	ROD.....	1		L99943	CBAL VALVE SEAL KIT.....	1
05	L500758	HEAD GLAND.....	1	11	NSS	CYLINDER TUBE.....	1
06	L500754	ROD SPACER.....	1	12	L500262	CYLINDER SEAL KIT.....	1
07	L500757	PISTON.....	1				

**NOTE:** *Items in seal kits are not shown.*

Hydraulic Components

Outrigger Cylinder

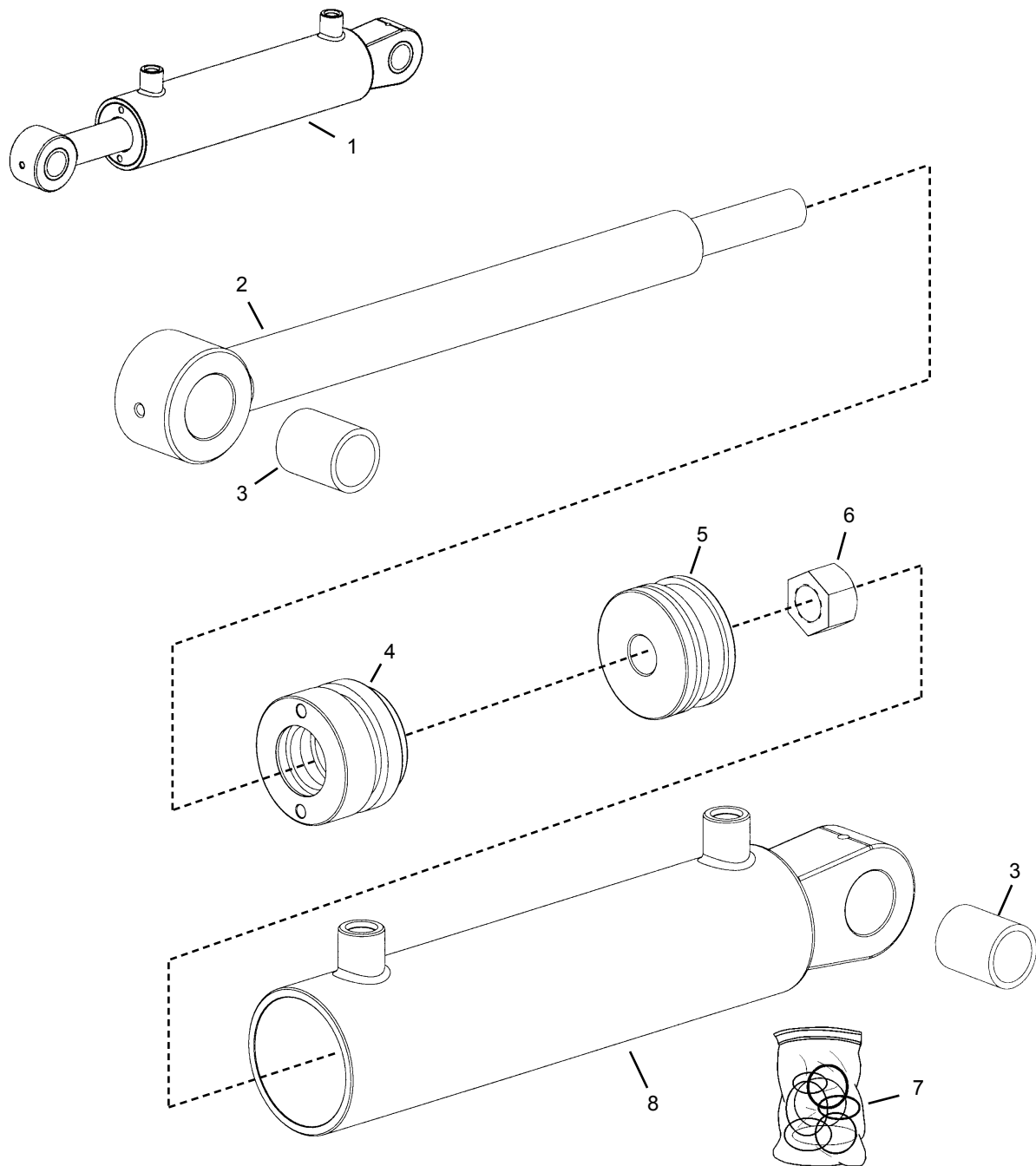
DL Series Dynalift



Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	L70616	OUTRIGGER CYLINDER	1	08	L69138	BUSHING (<i>base end</i>)	1
02	L99989	ROD	1	09	L99917	PLUG, -40RM	1
03	L10465	1/4"-28 GREASE ZERK.....	2	10	L99987	PO CHECK VALVE	2
04	L70618	BUSHING (<i>rod end</i>).....	1	11	NSS	CYLINDER TUBE	1
05	L99991	HEAD GLAND.....	1	12	L99988	CYLINDER SEAL KIT	1
06	L99992	PISTON.....	1				
07	137221	1-3/8"-12 UNF LOCKNUT	1				



NOTE: Items in seal kits are not shown.



Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	L67248	GRAPPLE CYLINDER	1	05	121552	PISTON	1
02	L98923	ROD WELDMENT (<i>incl. item 3</i>) ..	1	06	080319	3/4\"-16 UNF LOCKNUT.	1
03	L63593	BUSHING 1\" x 1.25\" x 1.5\"	2	07	L99944	SEAL KIT	1
04	L98919	HEAD GLAND	1	08	NSS	CYLINDER TUBE WELDMENT ...	1

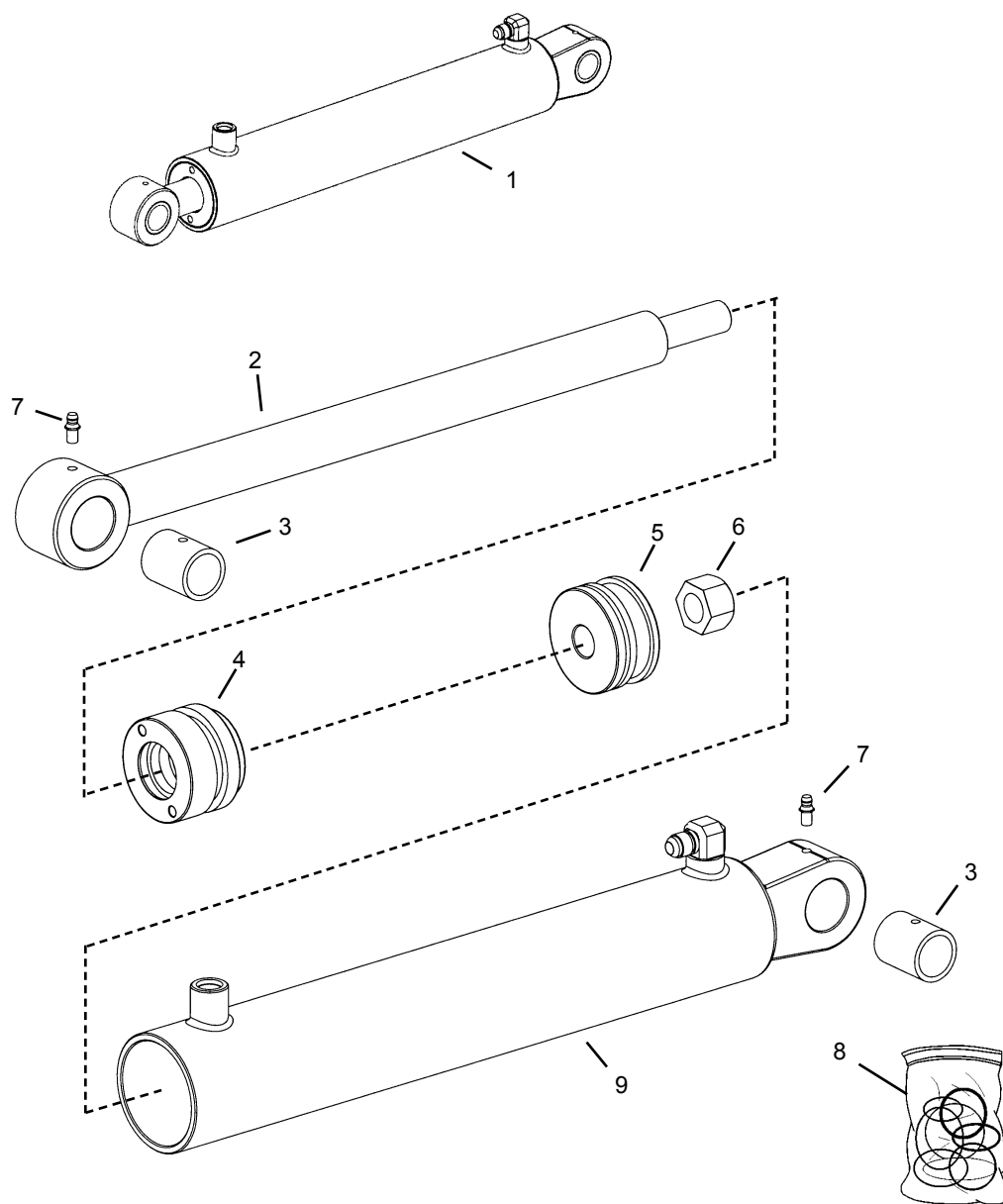


NOTE: Items in seal kits are not shown.

Hydraulic Components

Swing-Carriage Cylinder

DL Series Dynalift

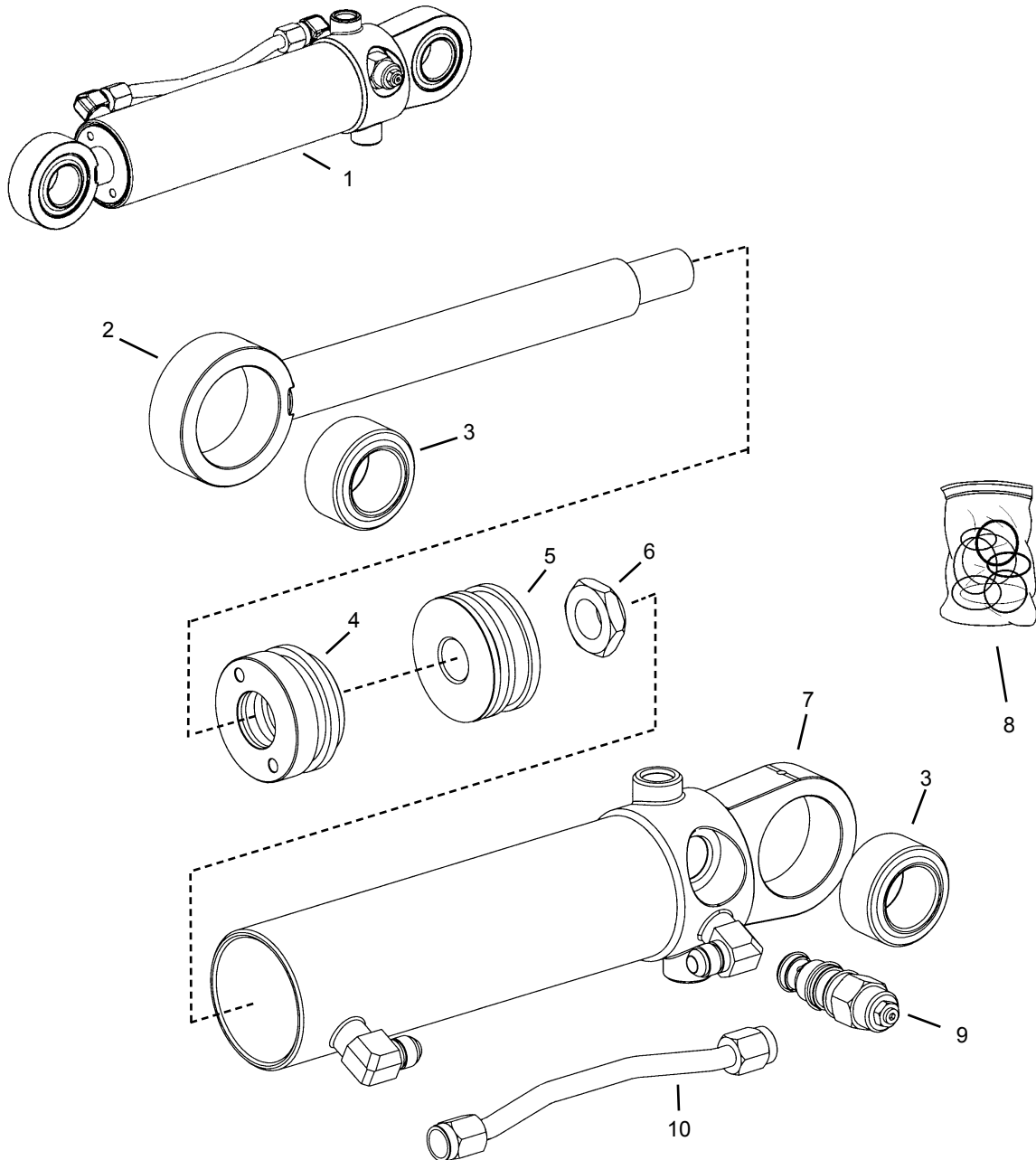


Ref. No.	Part No.	Description	Qty. Req.
01	L63970	SWING-CARRIAGE CYLINDER . . .	1
02	L500364	ROD	1
03	L63593	BUSHING	2
04	L500365	HEAD GLAND	1
05	L98662	PISTON	1
06	080319	LN 0.75"-16 UNF	1

Ref. No.	Part No.	Description	Qty. Req.
07	L10465	1/4"-28 GREASE ZERK.	2
08	L99944	SEAL KIT	1
09	NSS	TUBE	1



NOTE: Items in seal kits are not shown.



Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	L70655	ROTATE-CARRIAGE CYLINDER . .	1	07	NSS	TUBE	1
02	L500242	ROD	1	08	L97769	SEAL KIT	1
03	L64122	SPHERICAL BEARING	2	09	L48868A	CB VALVE (3000 psi)	2
04	L99074	HEAD GLAND	1		L96838	CB VALVE SEAL KIT	1
05	L97839	PISTON	1	10	L500241	HYDRAULIC LINE ASSEMBLY . . .	1
06	080313	1"-14 UNS THIN COL. LOCKNUT .	1				

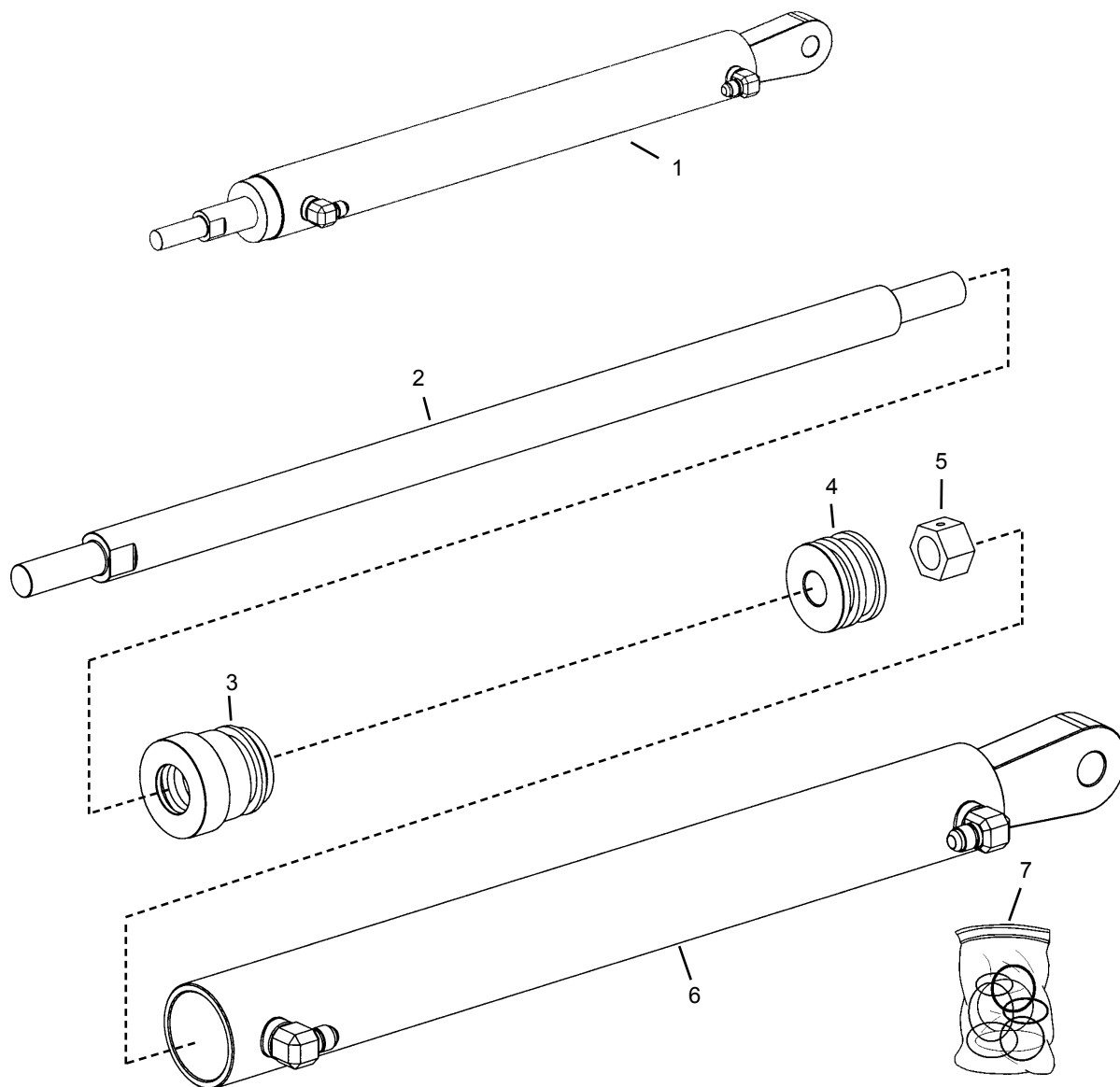


NOTE: Items in seal kits are not shown.

Hydraulic Components

Dynattach® 50" Fork-Shift Carriage Cylinder

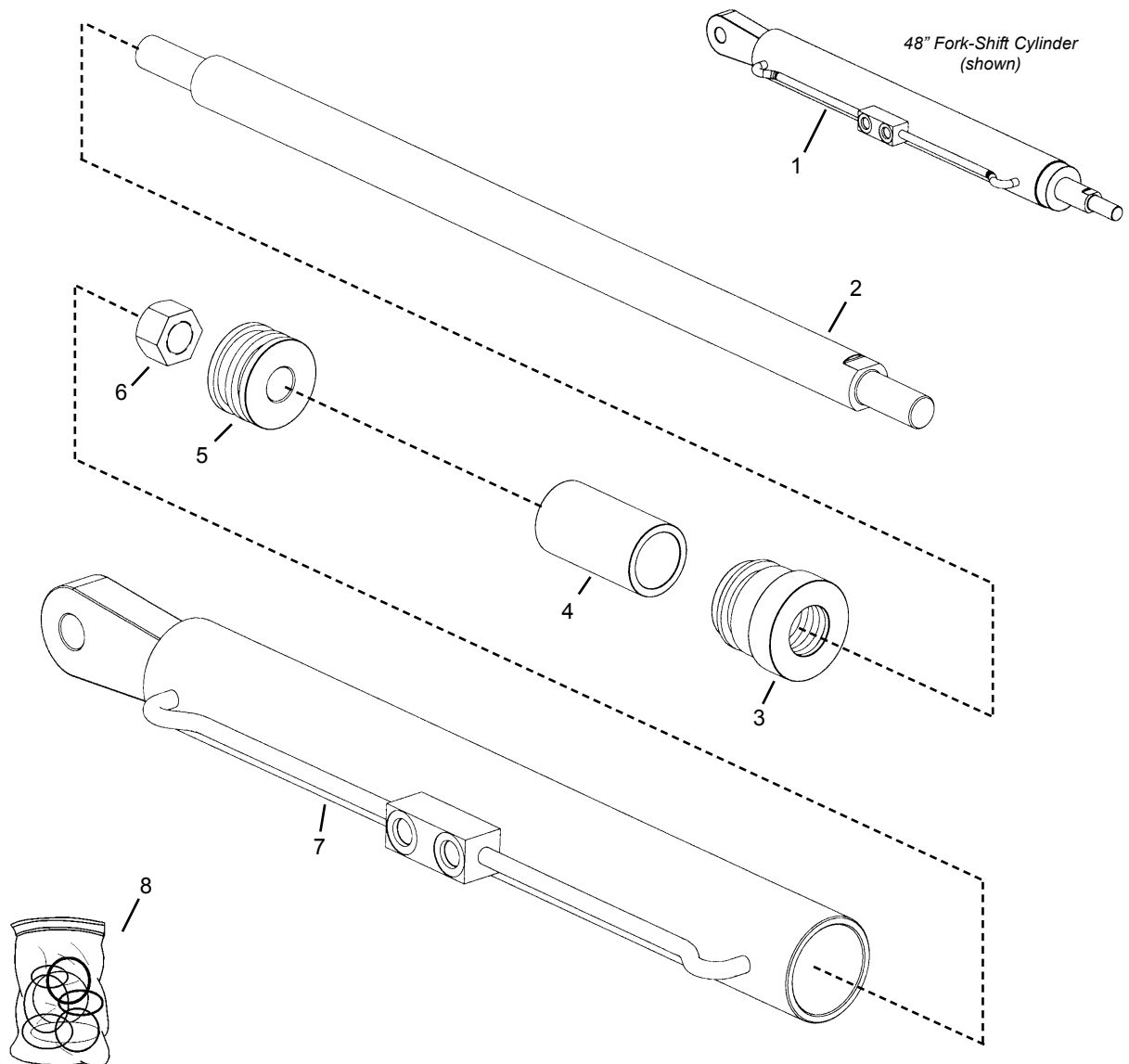
DL Series Dynalift



Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	L68337	FORK-SHIFT CYLINDER	1	05	080319	LN 0.75"-16 UNF	1
02	L500763	ROD	1	06	NSS	TUBE	1
03	L500762	HEAD GLAND	1	07	L500370	SEAL KIT	1
04	L500761	PISTON	1				



NOTE: Items in seal kits are not shown.



Ref. No.	Part No.	Description	Qty. Req.
01	210932	FORK-SHIFT CYLINDER 1	
	210901	48" Fork-Shift Carriage	
		72" Fork-Shift Carriage	
02		CYLINDER ROD 1	
	106959	Note a	
	106961	Note b	
03		HEAD GLAND 1	
	L500762	Note a	
	121565	Note b	
04 ^c	106960	ROD SPACER (72" cylinder only) . . 1	
05	L500761	PISTON 1	
06	080319	LN 0.75"-16 UNF 1	

Ref. No.	Part No.	Description	Qty. Req.
07	NSS	TUBE WELDMENT 1	
08		SEAL KIT 1	
	L500370	Note a	
	106962	Note b	

- a Used with 48" fork-shift carriage cylinder (210932)
- b Used with 72" fork-shift carriage cylinder (210901)
- c Rod spacer is only used with the 72" fork-shift cylinder (210901).

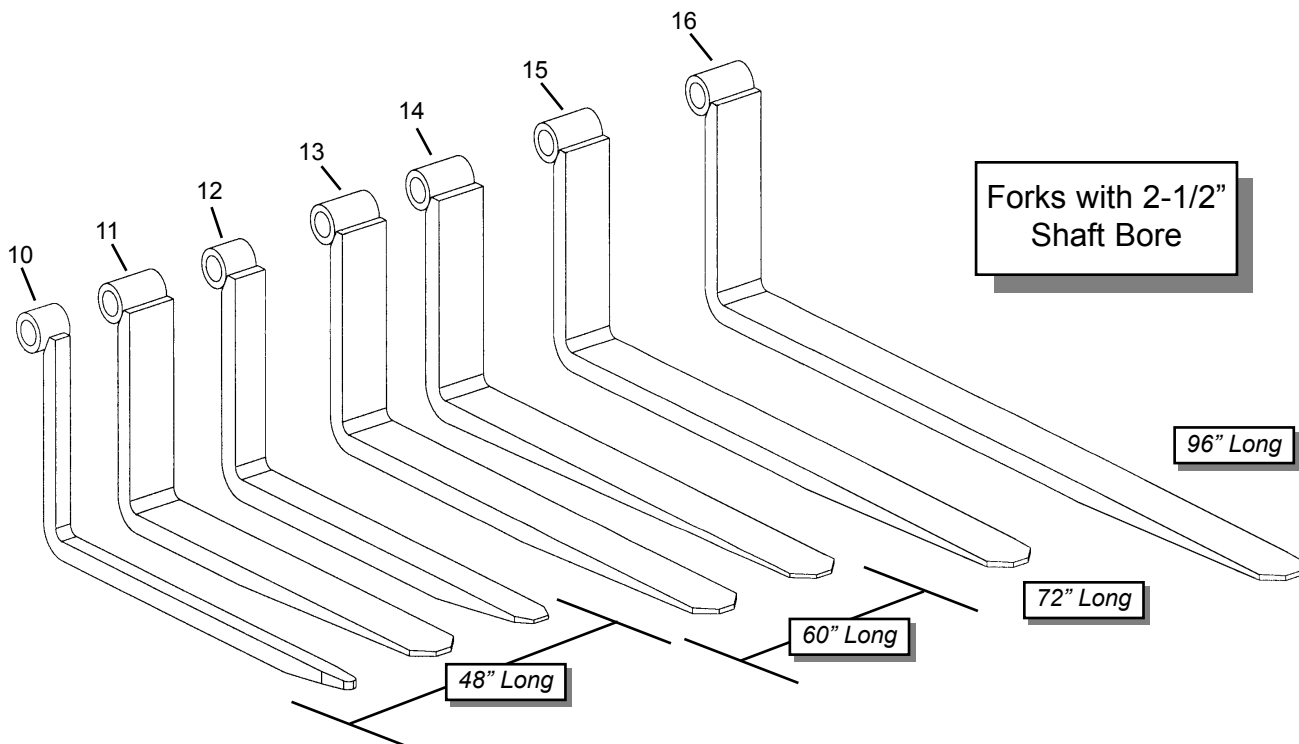
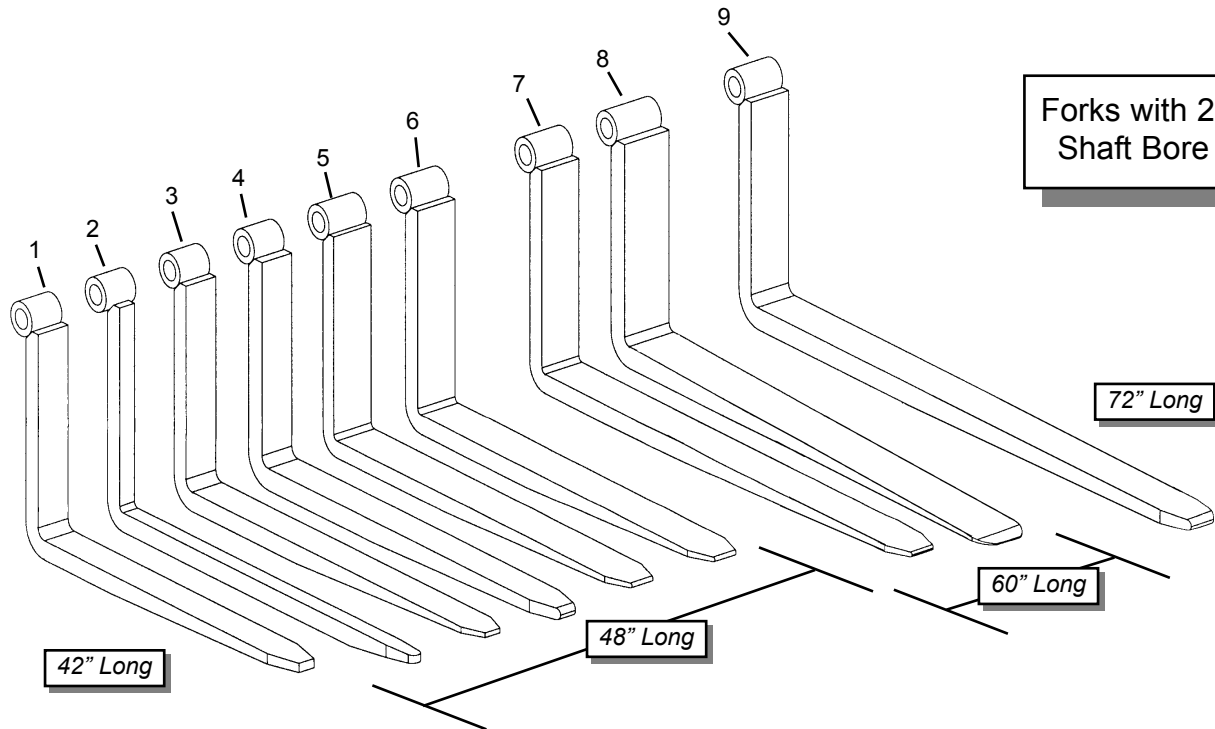


NOTE: Items in seal kits are not shown.

Attachments

Carriage Forks

DL Series Dynalift



Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
-- 2" FORK SHAFT DIAMETER --				-- 2-1/2" FORK SHAFT DIAMETER --			
		(42" long)				(48" long)	
01	L71350	FORK, 42"x4"x2" (8,400 lbs.)	2	10 ^{bd}	210016	FORK, 48"x2"x2" (12,600 lbs.)	6
		(48" long)		11 ^d	L71159	FORK, 48"x6"x2" (12,600 lbs.)	2
02 ^{ac}	L61001	FORK, 48"x2"x2" (4,200 lbs.)	4	12 ^d	210275	FORK, 48"x4"x2-1/4" (12,000 lbs.) . .	2
03 ^c	L61017	FORK, 48"x4"x2" (8,400 lbs.)	2			(60" long)	
04	L66406	FORK, 48"x4"x2-1/4" (12,000 lbs.) . .	2	13 ^d	L71160	FORK, 60"x6"x2" (12,600 lbs.)	2
05 ^c	L400929	FORK, 48"x5"x1-3/4" (8,500 lbs.) . .	2	14 ^d	210270	FORK, 60"x6"x2-1/4" (12,000 lbs.) . .	2
06	L47263	FORK, 48"x5"x2" (10,500 lbs.)	2			(72" long)	
		(60" long)		15 ^d	L71161	FORK, 72"x6"x2" (12,600 lbs.)	2
07	L47265	FORK, 60"x5"x2" (10,500 lbs.)	2			(96" long)	
08	L60961	FORK, 60"x6"x2-1/4" (12,000 lbs.) . .	2	16 ^d	210736	FORK, 96"x5"x2-1/4" (12,000 lbs.) . .	2
		(72" long)					
09	L68331	FORK, 72"x5"x2" (10,500 lbs.)	2				

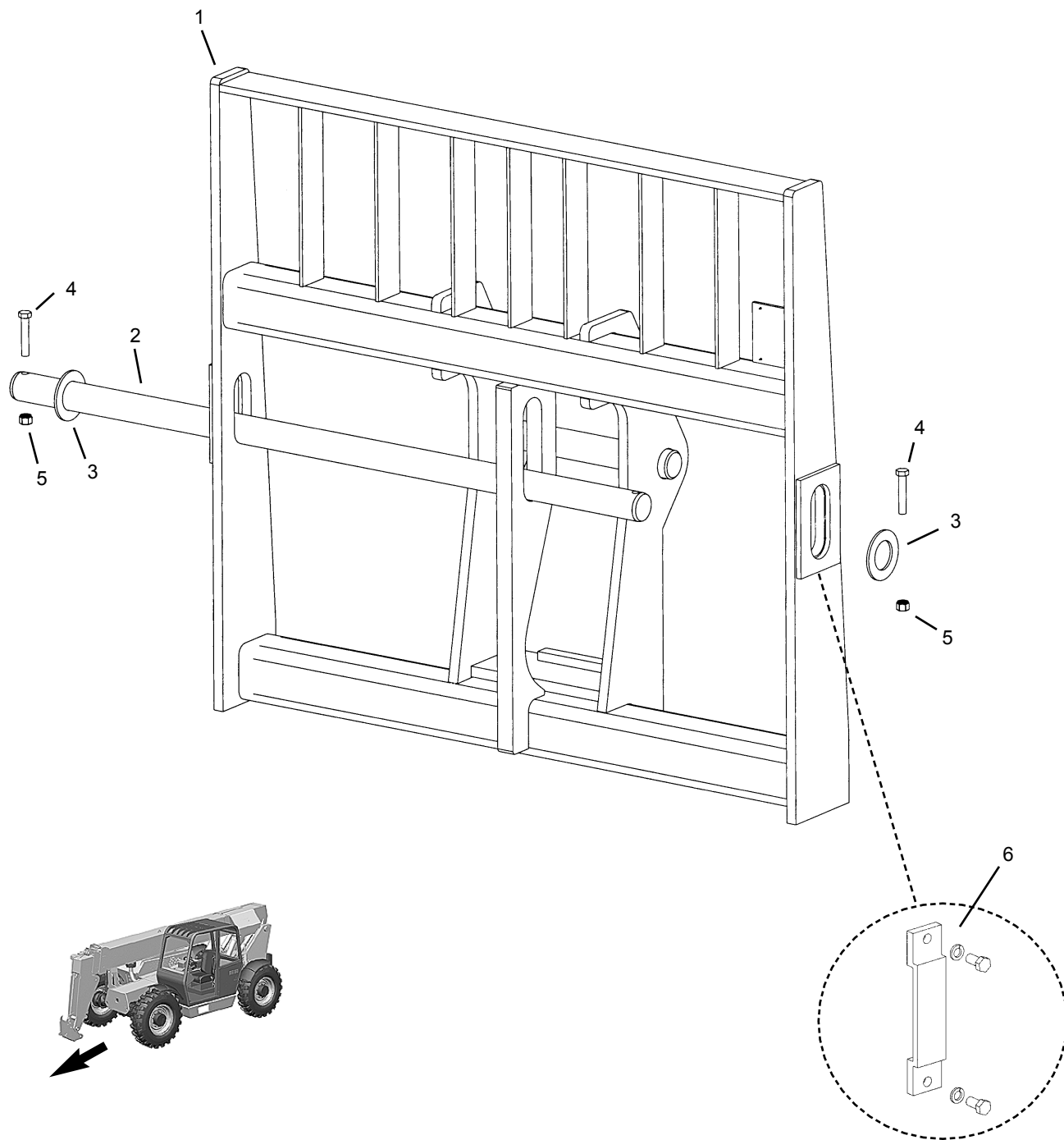
- a Requires two sets (4 forks).
b Requires three sets (6 forks).
c Used ONLY on DL7 or DL9.
d Used ONLY on DL11 or DL12

**WARNING**

When ordering forks, select forks with a rating capacity that meets or exceeds the lifting capacity of the machine; failure to use the correct forks could result in injury or death. For more information contact dealer (or manufacturer).



NOTE: Ratings are based on two forks with a load center of 24"; except for item #2 where four forks are required; and item #10 where six forks are required.



Dynattach® Standard Carriage

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01		CARRIAGE (frame)	1	04		BOLT	2
	L99190	48" (uses 2" pin)	1		L510003	1/2"x2-3/4" - (Note a)	2
	430171	48" (uses 2-1/2" pin) - (Note e) . . .	1		650650	1/2"-13"x3-1/2" - (Note b)	2
	L99191	66" (uses 2" pin)	1	05	L520019	1/2"-13 NYLON INSERT NUT	2
	430173	66" (uses 2-1/2" pin) - (Note e) . . .	1	06 ^f	L500764	FORKSHAFT RETAINER	1
	210407	72" (uses 2" pin)	1		654030	1/2" LOCK WASHER	2
	104870	72" (uses 2-1/2" pin)	1		650494	1/2"-13x1" BOLT	2
02		FORK SHAFT BAR	1				
	L65223	(2"x51-1/2")	1	a		Used with 2" diameter fork shaft bar.	
	L64561	(2"x69-1/2")	1	b		Used with 2-1/2" diameter fork shaft bar.	
	L68493	(2"x75-1/2")	1	c		Carriages without fork shaft bar retainer (item 6).	
	101625	(2-1/2"x51-1/2") - (Note c)	1	d		Carriages with fork shaft bar retainer (item 6).	
	101624	(2-1/2"x69-1/2") - (Note c)	1	e		For carriages using the fork shaft bar retainer (item 6), order the following items when replacing the carriage: item 2, note c; item 3; item 4 and item 5.	
	101240	(2-1/2"x48-1/2") - (Note d)	1	f		Not used on all carriages.	
	101241	(2-1/2"x66-1/2") - (Note d)	1				
	104844	(2-1/2"x74-3/4")	1				
03		FORK SHAFT WASHER	2				
	L400425	Note a					
	100369	Note b					

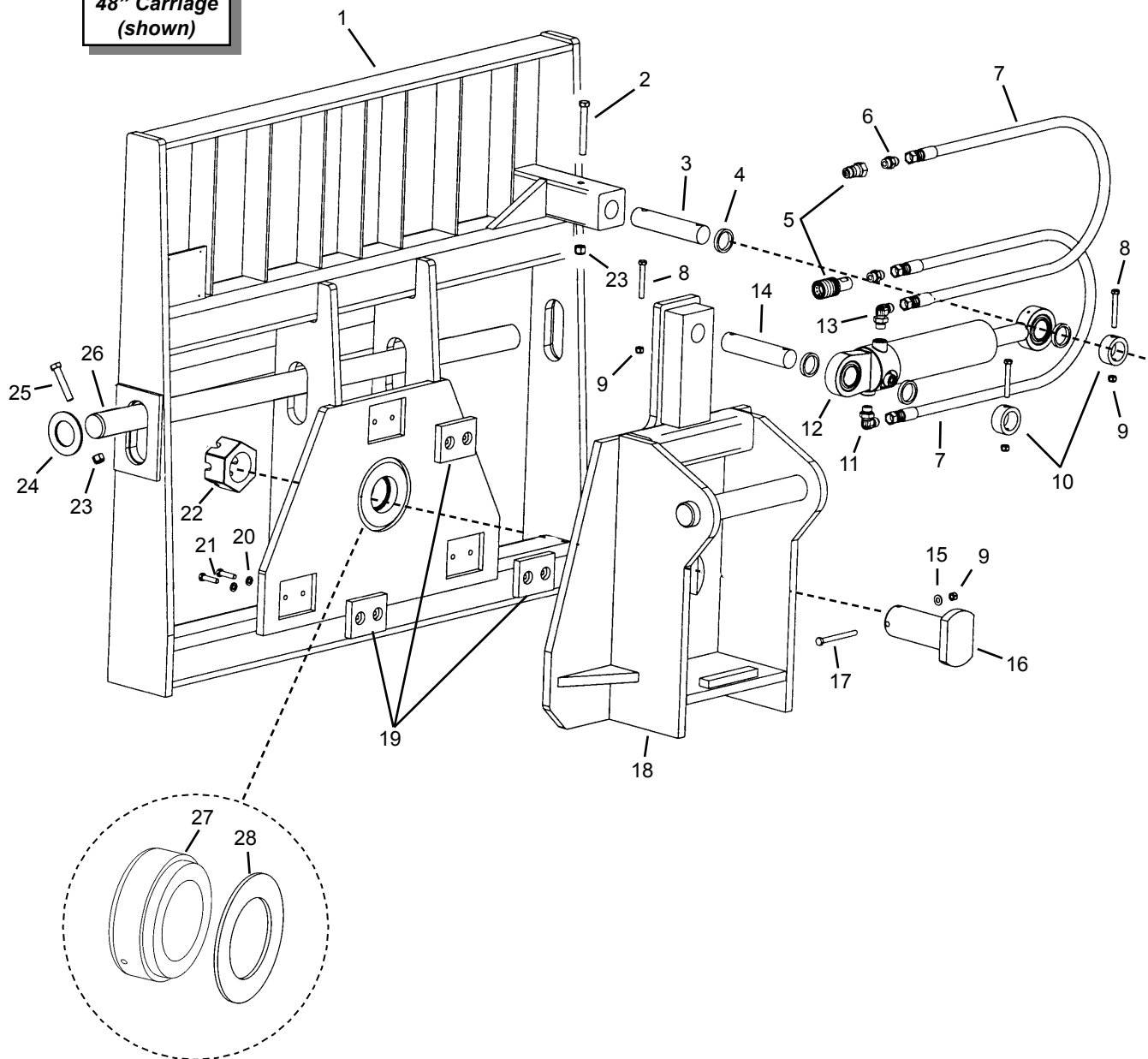
Attachments

Dynattach® Rotating Carriage

DL Series Dynalift

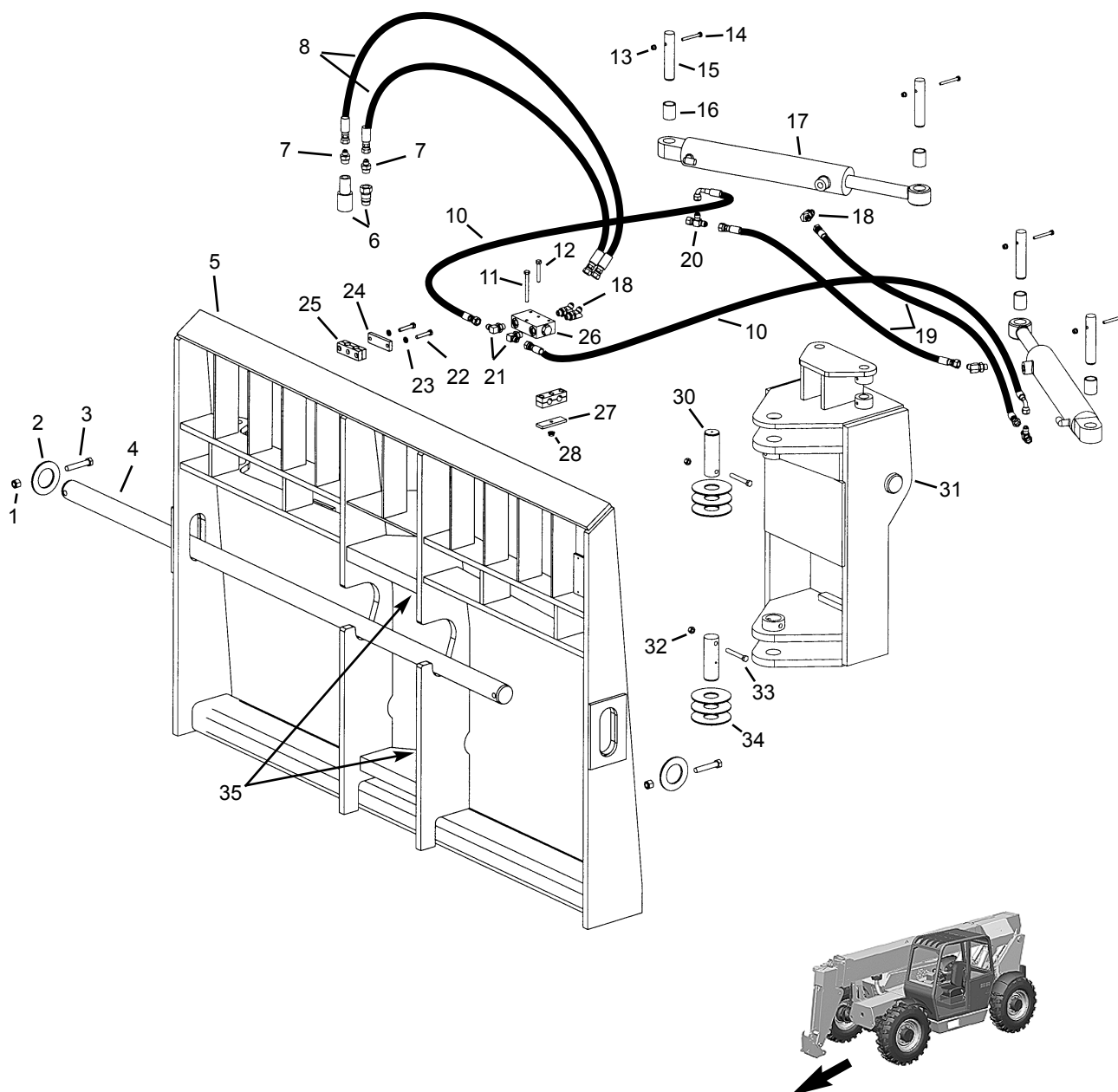


48" Carriage
(shown)



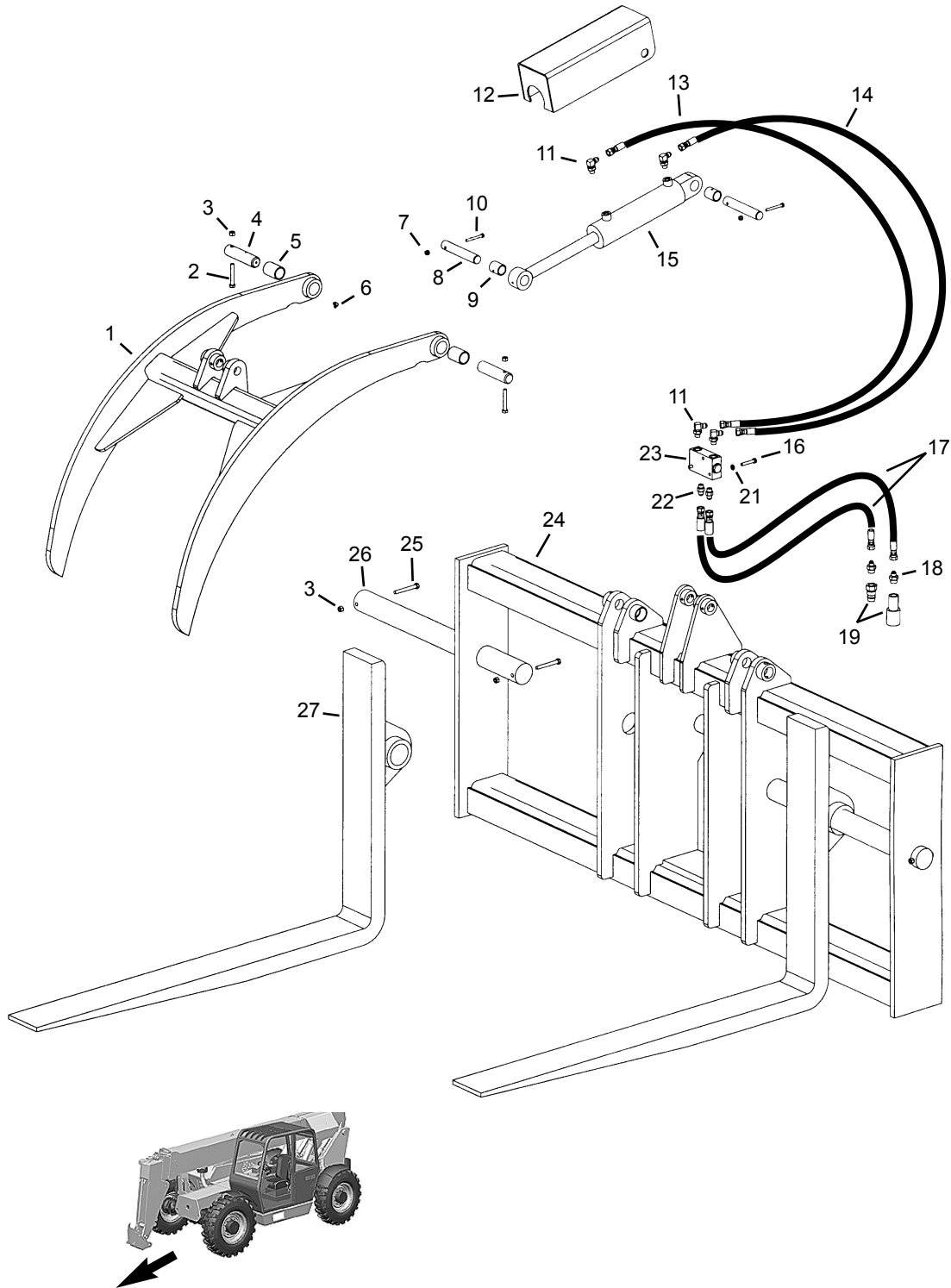
Dynattach® Rotating Carriage

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01		CARRIAGE, ROTATING (<i>frame</i>) . . . 1		17	650742	3/8"x4" BOLT 1	
	103517	(48" Carriage) 2" dia. fork shaft		18	101999	ROTATOR PLATE 1	
	103518	(66" Carriage) 2" dia. fork shaft		19	L61709	SLIDE PAD 3	
	103519	(48" Carriage) 2-1/2" dia. fork shaft		20	654026	3/8" LOCK WASHER 6	
	103520	(66" Carriage) 2-1/2" dia. fork shaft		21	650488	3/8"x1-1/2" BOLT 6	
02	L50982	1/2"x4" BOLT 1		22	L50718	2-1/2"-12 CASTELL NUT 1	
03	L65181	PIN, ROTATOR ROD END 1		23	L520019	1/2"-13 NYLON INSERT NUT 4	
04	L61307	SPACER 4		24		FORK SHAFT WASHER 2	
05	L65273	QUICK COUPLER SET 1			L400425	2" ID	
06	054626	ADAP., -8ORM -8JICM STR 2			100369	2-1/2" ID	
07	L64294	HOSE, -8 A8/A8 53" 2		25		BOLT 2	
08	650493	3/8"x2-3/4" BOLT 3			L510003	1/2"x2-3/4" BOLT (2" dia. shaft)	
09	L520005	3/8"-16 NYLON INSERT NUT . . . AR			650650	1/2"x2-3/4" BOLT (2-1/2" dia. shaft)	
10	L62026	LOCK COLLAR 1.5" OD 2		26		FORK SHAFT BAR 1	
11	L66017	ADAP., -8ORM -8JICM 90° w/ORF.. 2			L65223	(48" Carriage) 2" dia. fork shaft	
12	L70655	ROTATE CYLINDER 1			L64561	(66" Carriage) 2" dia. fork shaft	
13	L66017	ADAP., -8ORM -8JICM 90° w/ORF.. 2			101625	(48" Carriage) 2-1/2" dia. fork shaft	
14	L65180	PIN, ROTATOR BASE END 1			101624	(66" Carriage) 2-1/2" dia. fork shaft	
15	654006	3/8" FLAT WASHER AR		27	100990	BEARING, 2.50" SPHERICAL 1	
16	101003	ROTATOR PIN 1		28	L61287	WASHER AR	



Dynattach® Swing Carriage

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	L520019	1/2"-13 NYLON INSERT NUT	2	19	L63983	HOSE, -4 A6/A6 36"	2
02	L400425	FORK SHAFT WASHER	2	20	072806	ADAP., -6JICFS -6JICM TEE	2
03	L510003	1/2"x2-3/4" BOLT	2	21	068938	ADAP., -6ORM -6JICM 90°	2
04	L64561	FORK SHAFT BAR (66" Carriage)	1	22	650692	5/16"-18x1-3/4" BOLT	2
05	L500216	66" CARRIAGE, SWING (frame)	1	23	654024	5/16" LOCK WASHER	2
06	L65273	COUPLER SET	1	24	L63715	TWIN CUSHION TOP PLATE	1
07	L63143	ADAP., -8ORM -6JICM w/ORF	2	25	L63716	TWIN HOSE CUSHION	2
08	L66958	HOSE, -6 A6/A6 89"	2	26	L71651	VALVE, DUAL PO	1
10	L63984	HOSE, -4 DS6/A6 22"	2	27	L63233	HOSE CUSH. TOP PLATE	1
11	650833	5/16"x3" BOLT	1	28	L50056	5/16" FLARE NUT	2
12	650568	5/16"x2" BOLT	1	30	L63994	PIN, CARRIAGE PIVOT	2
13	L520003	1/4" NYLON INSERT NUT	4	31	L70719	SWING PIVOT	1
14	650839	1/4"x2-1/4" BOLT	4	32	L520005	3/8"-16 NYLON INSERT NUT	2
15	L63995	PIN, SWING CYLINDER	4	33	650493	3/8"-16x2-3/4" BOLT	2
16	L63593	BUSHING	4	34	L63951	THRUST WASHER	6
17	L63970	SWING CYLINDER	2	35	L63468	BUSHING, CARRIAGE PIVOT	2
18	079026	ADAP., -6ORM -6JICM 45	4			(not shown)	



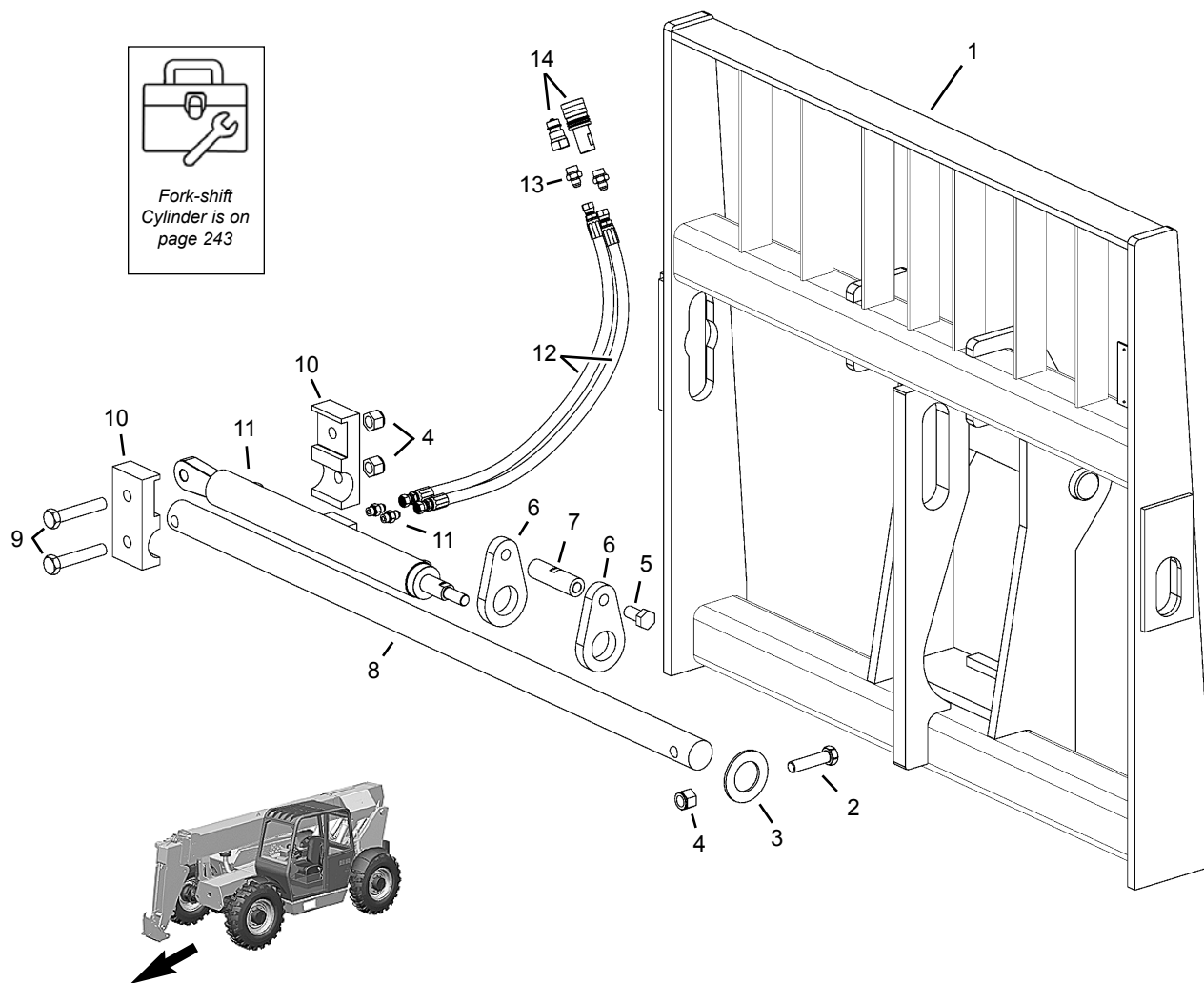
Dynattach® Log/Pipe Carriage

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	L67347	LOG GRAPPLE	1	15	L67248	LOG GRAPPLE CYLINDER	1
02	650492	3/8"x2-1/2" BOLT	2	16	650692	5/16"-18x1-3/4" BOLT	2
03	L520005	3/8"-16 NYLON INSERT NUT	6	17	L66831	HOSE, -6 A6/A6 52"	2
04	L67246	LOG GRAPPLE PIVOT PIN	2	18	L63143	ADAP., -8ORM -6JICM w/ORF	2
05	L61866	BUSHING	2	19	L65273	COUPLER SET	1
06	L10057	1/4"-28 GREASE ZERK 90°	2	21	654024	5/16" LOCKWASHER	2
07	L520003	1/4" NYLON INSERT NUT	2	22	054994	ADAP., -6ORM -6JICM	2
08	L66811	GRAPPLE CYLINDER PIN	2	23	L71651	VALVE, DOUBLE PORT CHECK	1
09	L63593	BUSHING	2	24	L500220	LOG CARRIAGE (frame).	1
10	650839	1/4x2-1/4" BOLT	2	25	650818	3/8"-16x3" BOLT	4
11	068938	ADAP., -6ORM -6JICM 90°	4	26	L66809	LOG FORK SHAFT	2
12	L67495	CYLINDER COVER.	1	27		LOG FORK	2
13	L67598	HOSE, -4 A6/A6 32"	1		L66805	2"x5"x48"	
14	L67599	HOSE, -4 A6/A6 20"	1		100547	2"x5"x60"	
					50380232	2"x5"x72"	

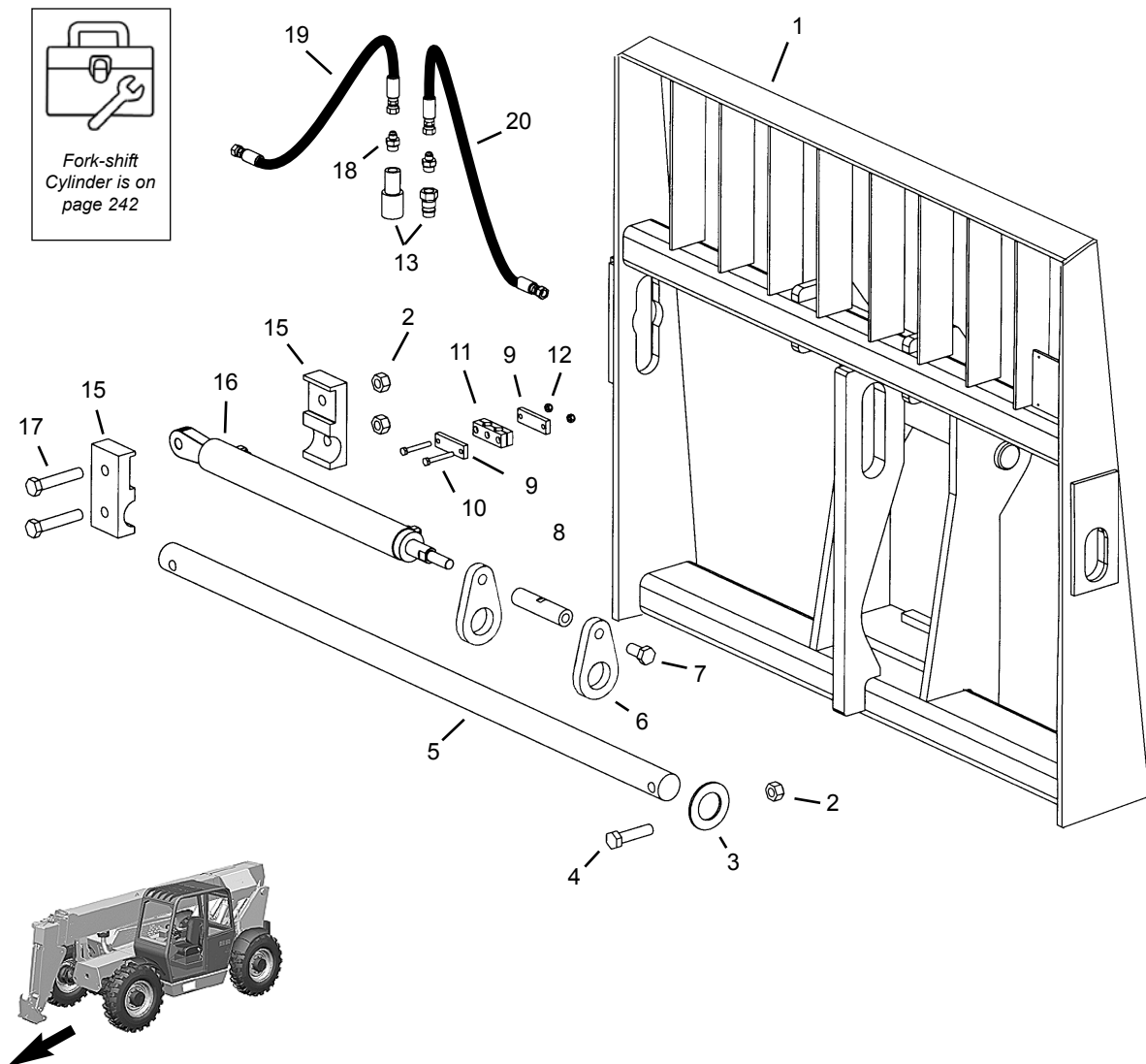
Attachments

DL Series Dynalift

Dynattach® 48" Fork-Shift Carriage



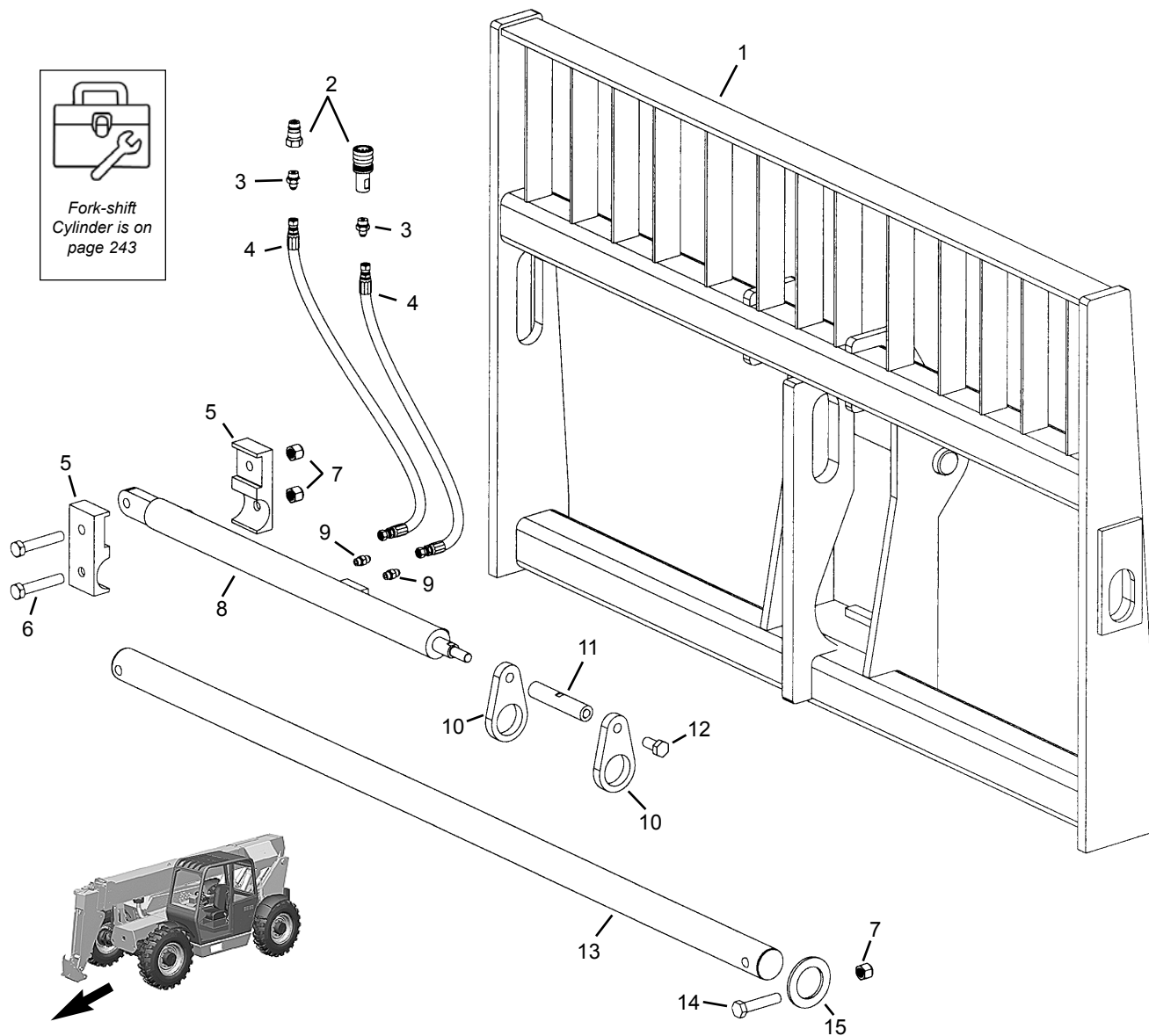
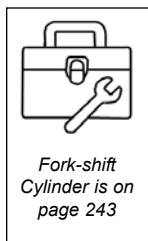
Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01 ^a	50220665	48" FORK-SHIFT FRAME	1	09	L50562	3/4"-10x4" BOLT	2
02	L50333	3/4"-10x3" BOLT	1	10	L66918	CYLINDER MOUNT	2
03	L400425	FORK SHAFT WASHER	1	11	210932	FORK SHIFT CYLINDER	1
04	079209	3/4"-10 NYLON INSERT NUT	3	12	175720	HOSE, -6 A6/A6 51"	2
05	650500	3/4"-10x1-1/2" BOLT	1	13	L63143	ST MJ06-MORB08 ORIFICE	2
06	L66931	FORK SLIDE PLATE	2	14	L65273	COUPLER SET	1
07		FORK SLIDE COUPLER	1				
	L66921	4" wide forks		a	Fork-shift carriage weldment only; items 2-14 are separate parts and can be order individually.		
	L66948	5" wide forks					
08	210934	FORK SHAFT (2" x 53-1/8")	1				



Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01 ^a	L500213	50" FORK-SHIFT CARR. (frame) . . .	1	12	L520004	5/16"-18 NYLON INSERT NUT . . .	2
02	079209	3/4"-10 NYLON INSERT NUT	3	13	L65273	COUPLER SET	1
03	L400425	FORK SHAFT WASHER	1	15	L66918	CYLINDER MOUNT	2
04	L50333	3/4"-10x3" BOLT	1	16	L68337	FORK SHIFT CYLINDER	1
05	L66919	FORK SHAFT, 50"	1	17	L50562	3/4"-10x4" BOLT	2
06	L66931	FORK SLIDE PLATE	2	18	L63143	ADAP., -8ORM -6JICM W/.06 ORF. 2	
07	650500	3/4"-10x1-1/2" BOLT	1	19	L66950	HOSE, -6 A6/A6 59"	1
08		FORK SLIDE COUPLER	1	20	L66949	HOSE, -6 A6/A6 56"	1
	L66921	4" wide forks					
	L66948	5" wide forks					
09	L63715	TWIN CUSHION TOP PLATE	2				
10	L50242	5/16"-18x2-1/4" BOLT	2				
11	L63716	TWIN HOSE CUSHION	1				

^a Fork-shift carriage weldment only; items 2-20 are separate parts and can be order individually.

Dynattach® 72" Fork-Shift Carriage



DL7/ DL9/ DL11/ DL12

Attachments

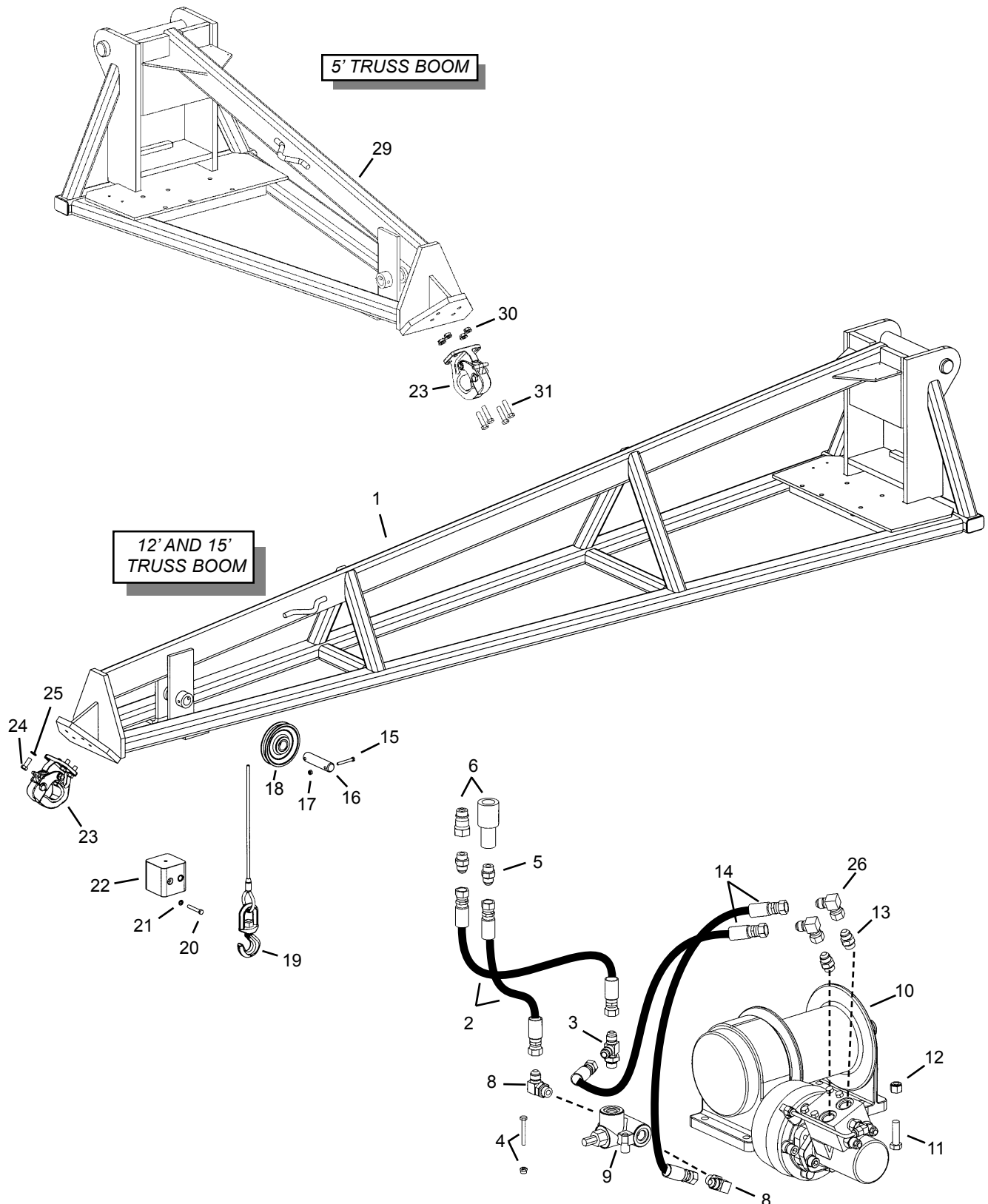
Dynattach® 72" Fork-Shift Carriage

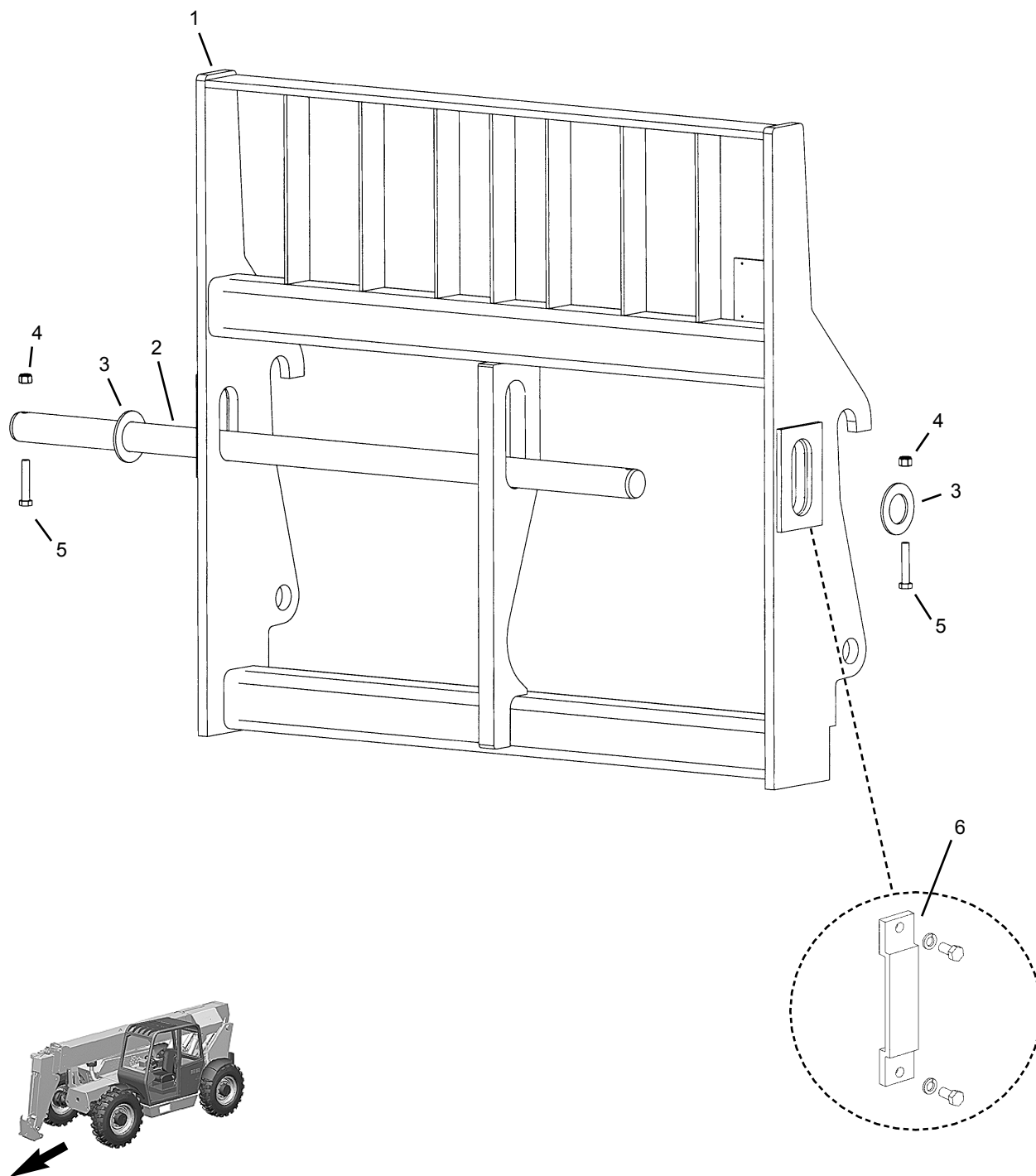
Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01 ^a	210926	72" FORK-SHIFT CARRIAGE	1	09	054994	ADAP., -6ORM -6JICM	2
		(Dynattach® Carriage) (frame)		10	210904	FORK SLIDE PLATE	2
02	L65273	COUPLER SET	1	11	210905	COUPLER, 6"	1
03	L63143	ADAP -8ORM -6JICM W/.06 ORF .	2	12	650500	3/4" x 1-1/2" BOLT	1
04	175720	HOSE -6 A6/A6 51"	2	13	210906	SHAFT, 2-1/2" x 77-5/8"	1
05	210898	CLAMP, CYLINDER MOUNT	2	14	650173	3/4"-10 x 3-1/2" BOLT	1
06	L50562	3/4"-10 x 4" BOLT	2	15	100369	FORK SHAFT WASHER	1
07	079209	3/4"-10 NYLON INSERT NUT	3				
08	210901	FORK-SHIFT CYLINDER	1	a		<i>Fork-shift carriage weldment only; items 2-20 will need to be ordered separately.</i>	

Attachments

DL Series Dynalift

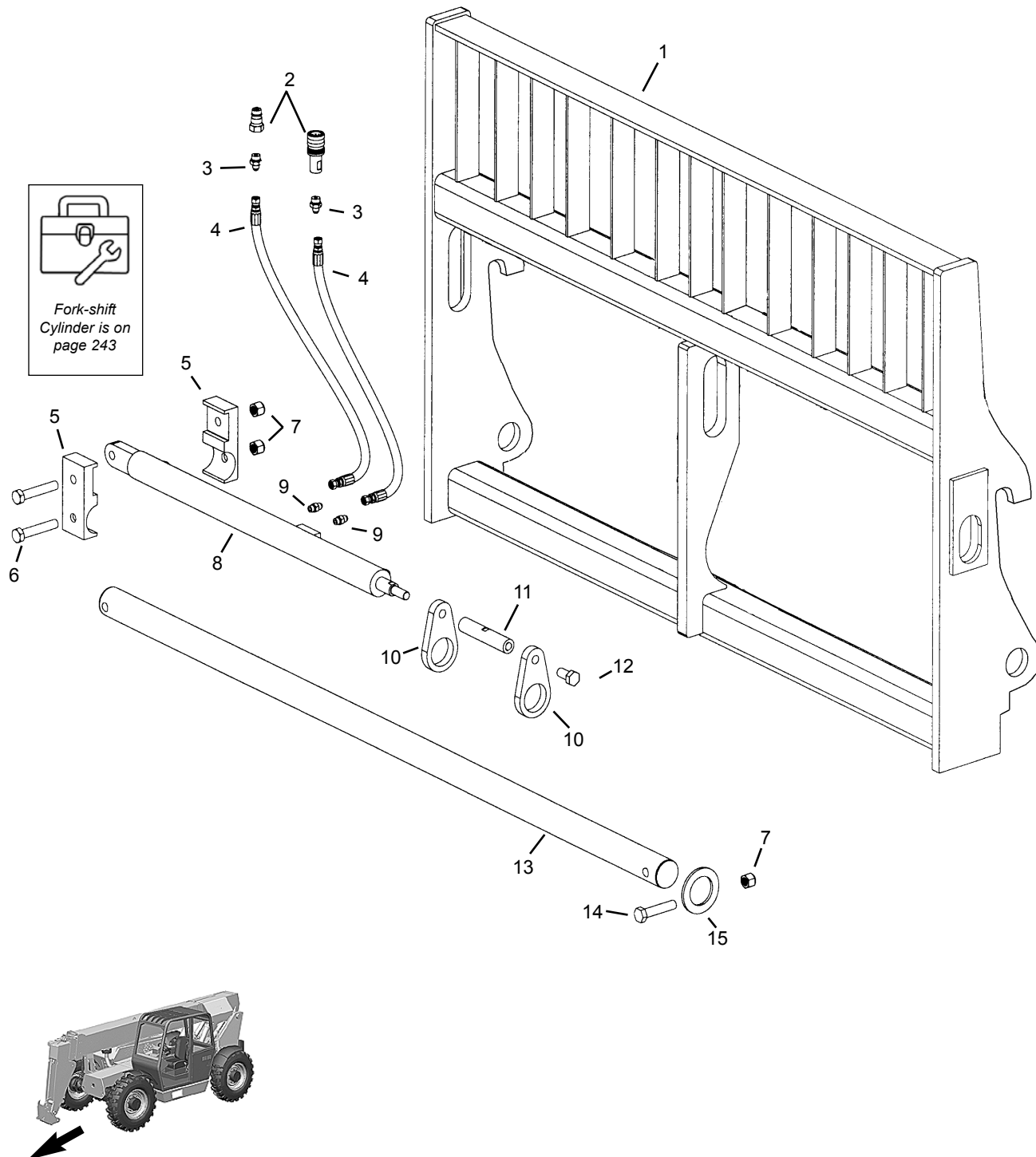
Dynattach® Truss Boom and Winch / Bucket





DynacARRIER® Standard Carriage

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01		CARRIAGE (frame)	1	03		FORK SHAFT WASHER	2
	L500196	48" (2" pin)	1		L400425	Note a	
	430170	48" (uses 2-1/2" pin) - (Note e)	1		100369	Note b	
	L500197	66" (2" pin)	1	04	L520019	1/2"-13 NYLON INSERT NUT	2
	430172	66" (uses 2-1/2" pin) - (Note e)	1	05		BOLT	2
	210408	72" (uses 2" pin)	1		L510003	Note a -- 1/2"x2-3/4" BOLT	2
	105069	72" (uses 2-1/2" pin)	1		650650	Note b -- 1/2"-13"x3-1/2" BOLT	2
02		FORK SHAFT BAR	1				
	L65223	(2"x51-1/2")	1	06 ^f	L500764	FORKSHAFT RETAINER	1
	L64561	(2"x69-1/2")	1		654030	1/2" LOCK WASHER	2
	L68493	(2"x75-1/2")	1		650494	1/2"-13x1" BOLT	2
	101625	(2-1/2"x51-1/2") - (Note c)	1				
	101624	(2-1/2"x69-1/2") - (Note c)	1	a		Used with 2" diameter Fork Shaft Bar	
	101240	(2-1/2"x48-1/2") - (Note d)	1	b		Used with 2-1/2" diameter Fork Shaft Bar	
	101241	(2-1/2"x66-1/2") - (Note d)	1	c		Used on carriages that do not use item 6 to retain the fork shaft bar.	
	104844	(2-1/2"x74-3/4")	1	d		Used on carriages that use item 6 to retain the fork shaft bar.	
				e		If carriage uses item 6 to retain the fork shaft bar, order the following items when replacing the carriage: item 2, note c; items 3, 4 and 5.	
				f		Not used on all carriages.	



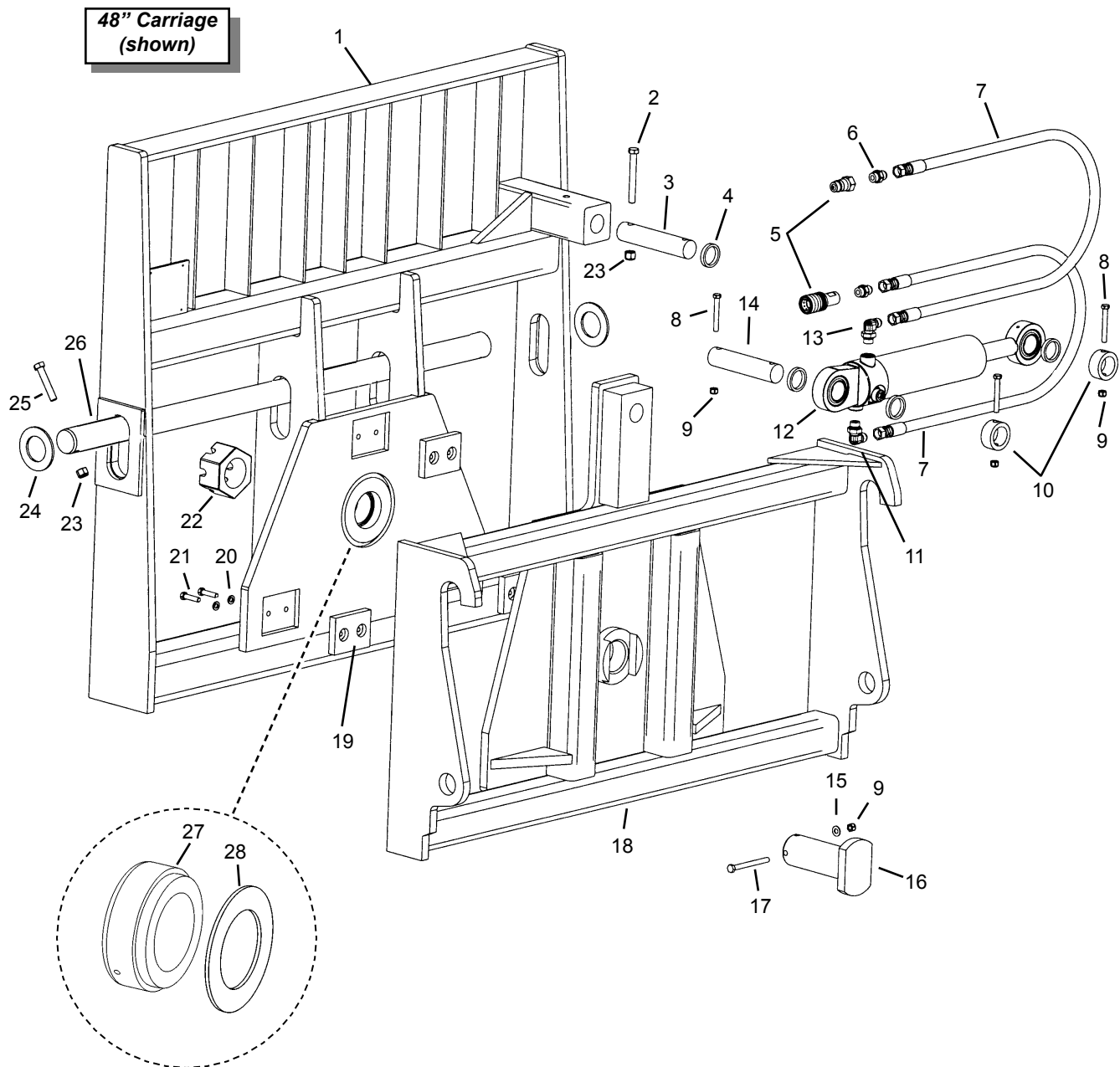
DynacARRIER® Fork-Shift Carriage

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01		FORK-SHIFT CARRIAGE (<i>frame</i>) . .	1	09	094554	ADAP., -6ORM -6JICM	2
	210931	48" Carriage		10	210904	FORK SLIDE PLATE	2
	211094	72" Carriage		11	210905	COUPLER, 6"	1
02	L65273	COUPLER SET	1	12	650500	3/4" x 1-1/2" BOLT	1
03	L63143	ADAP -8ORM -6JICM W/.06 ORF .	2	13		SHAFT, 2-1/2" x 77-5/8"	1
04	175720	HOSE -6 A6/A6 51"	2		210934	48" Carriage (2" x 53-1/8")	
05	210898	CLAMP, CYLINDER MOUNT	2		210906	72" Carriage (2-1/2" x 77-5/8")	
06	L50562	3/4"-10 x 4" BOLT	2	14	650173	3/4"-10 x 3-1/2" BOLT	1
07	079209	3/4"-10 NYLON INSERT NUT	3	15	100369	FORK SHAFT WASHER	1
08		FORK-SHIFT CYLINDER	1				
	210932	48" Carriage					
	210901	72" Carriage					

Attachments

DynacARRIER® Rotating Carriage

DL Series Dynalift



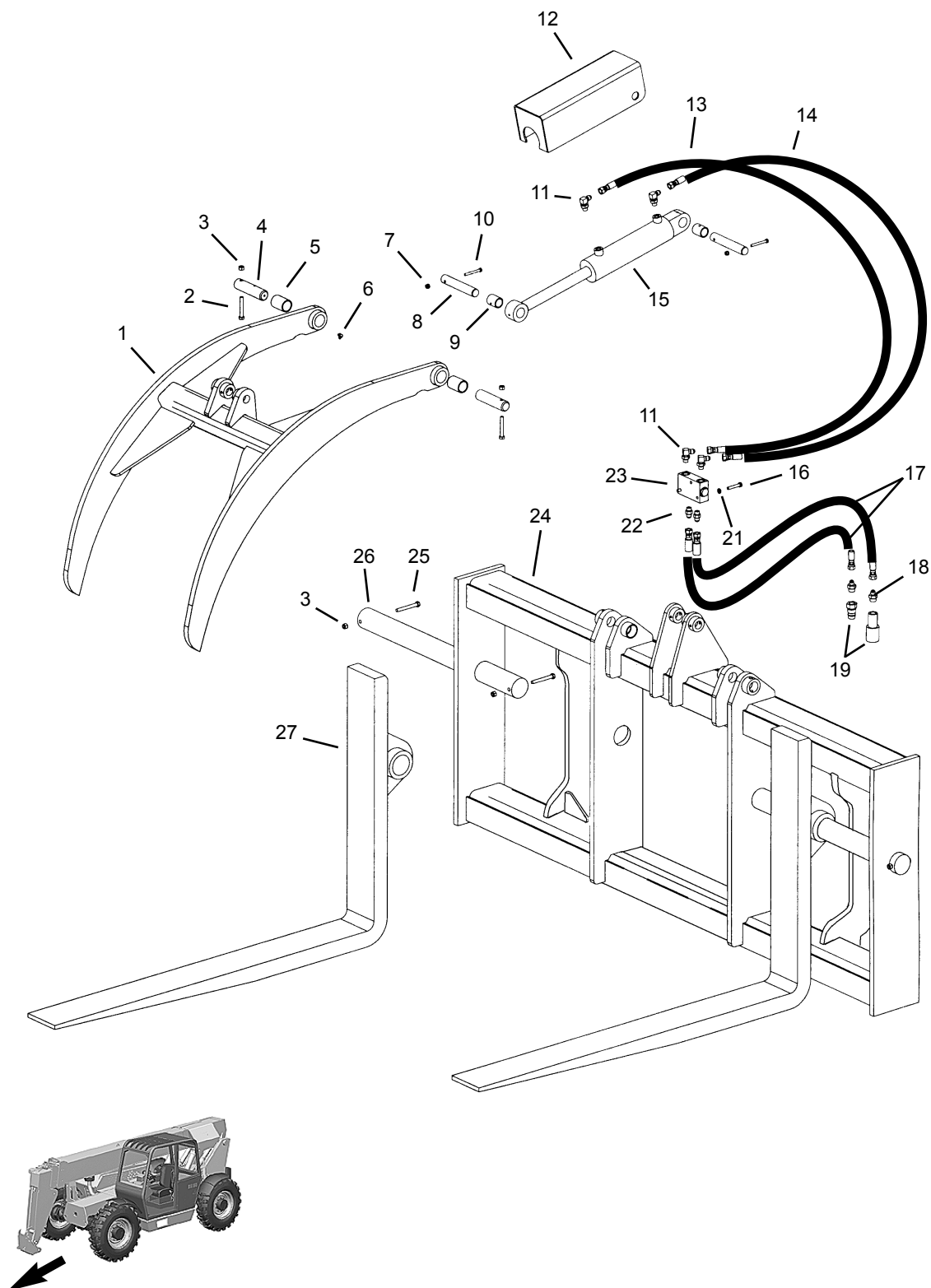
Dynacarrrier® Rotating Carriage

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01		CARRIAGE, ROTATING (<i>frame</i>) . . . 1		17	650742	3/8"x4" BOLT	1
	103517	(48" Carriage) 2" dia. fork shaft		18	101002	ROTATOR PLATE	1
	103518	(66" Carriage) 2" dia. fork shaft		19	L61709	SLIDE PAD	3
	103519	(48" Carriage) 2-1/2" dia. fork shaft		20	654026	3/8" LOCK WASHER	6
	103520	(66" Carriage) 2-1/2" dia. fork shaft		21	650488	3/8"x1-1/2" BOLT	6
02	L50982	1/2"x4" BOLT	1	22	L50718	2-1/2"-12 CASTELL NUT	1
03	L65181	PIN, ROTATOR ROD END	1	23	L520019	1/2"-13 NYLON INSERT NUT	4
04	L61307	SPACER	4	24		FORK SHAFT WASHER	2
05	L65273	QUICK COUPLER SET	1		L400425	2" ID	
06	054626	ADAP., -8ORM -8JICM STR	2		100369	2-1/2" ID	
07	L64294	HOSE, -8 A8/A8 53"	2	25		BOLT	2
08	650493	3/8"x2-3/4" BOLT	3		L510003	1/2"x2-3/4" BOLT (2" dia. shaft)	
09	L520005	3/8"-16 NYLON INSERT NUT . . . AR			650650	1/2"x2-3/4" BOLT (2-1/2" dia. shaft)	
10	L62026	LOCK COLLAR 1.5" OD	2	26		FORK SHAFT BAR	1
11	L66017	ADAP., -8ORM -8JICM 90° w/ORF..	2		L65223	(48" Carriage) 2" dia. fork shaft	
12	L70655	ROTATE CYLINDER	1		L64561	(66" Carriage) 2" dia. fork shaft	
13	L66017	ADAP., -8ORM -8JICM 90° w/ORF..	2		101625	(48" Carriage) 2-1/2" dia. fork shaft	
14	L65180	PIN, ROTATOR BASE END	1		101624	(66" Carriage) 2-1/2" dia. fork shaft	
15	654006	3/8" FLAT WASHER	AR	27	100990	BEARING, 2.50" SPHERICAL	1
16	101003	ROTATOR PIN.	1	28	L61287	WASHER	AR

Attachments

DynacARRIER® Log/Pipe Carriage

DL Series Dynalift



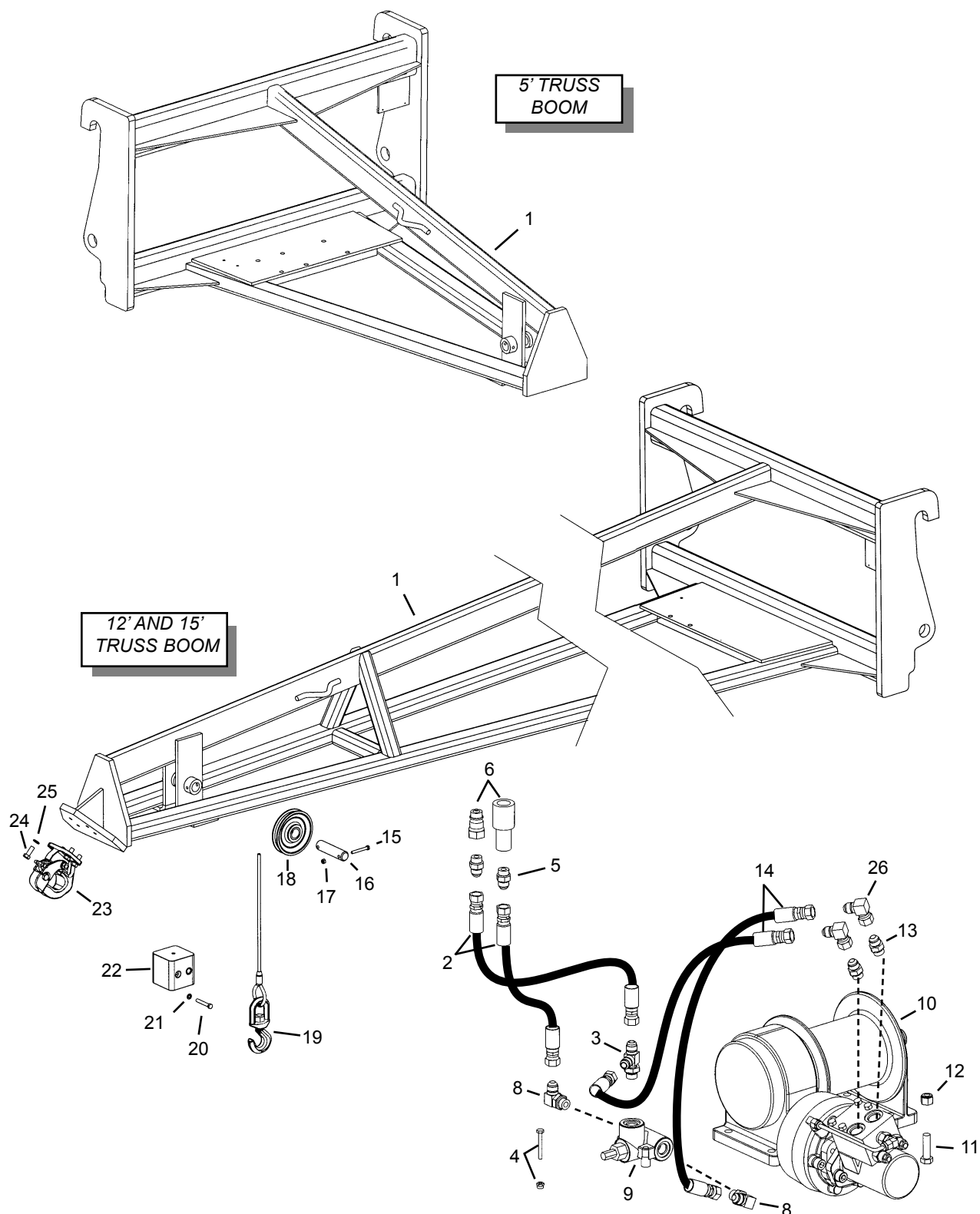
DynacARRIER® Log/Pipe Carriage

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	L67347	LOG GRAPPLE (<i>frame</i>)	1	16	650692	5/16"-18x1-3/4" BOLT	2
02	650492	3/8"x2-1/2" BOLT	2	17	L66831	HOSE, -6 A6/A6 52"	2
03	L520005	3/8"-16 NYLON INSERT NUT	6	18	L63143	ADAP., -8ORM -6JICM w/ORF	2
04	L67246	LOG GRAPPLE PIVOT PIN	2	19	L65273	COUPLER SET	1
05	L61866	BUSHING	2	21	654024	5/16" LOCKWASHER	2
06	L10057	1/4"-28 GREASE ZERK 90°	2	22	054994	ADAP., -6ORM -6JICM	2
07	L520003	1/4" NYLON INSERT NUT	2	23	L71651	VALVE, DOUBLE PORT CHECK	1
08	L66811	GRAPPLE CYLINDER PIN	2	24	103528	LOG CARRIAGE	1
09	L63593	BUSHING	2	25	650818	BOLT	4
10	650839	1/4x2-1/4" BOLT	2	26	L66809	LOG FORK SHAFT	2
11	068938	ADAP., -6ORM -6JICM 90°	4	27		LOG FORK	2
12	L67495	CYLINDER COVER	1		L66805	2"x5"x48"	
13	L67598	HOSE, -4 A6/A6 32"	1		100547	2"x5"x60"	
14	L67599	HOSE, -4 A6/A6 20"	1		50380232	2"x5"x72"	
15	L67248	LOG GRAPPLE CYLINDER	1				

Attachments

DynacARRIER® Truss Boom and Winch

DL Series Dynalift

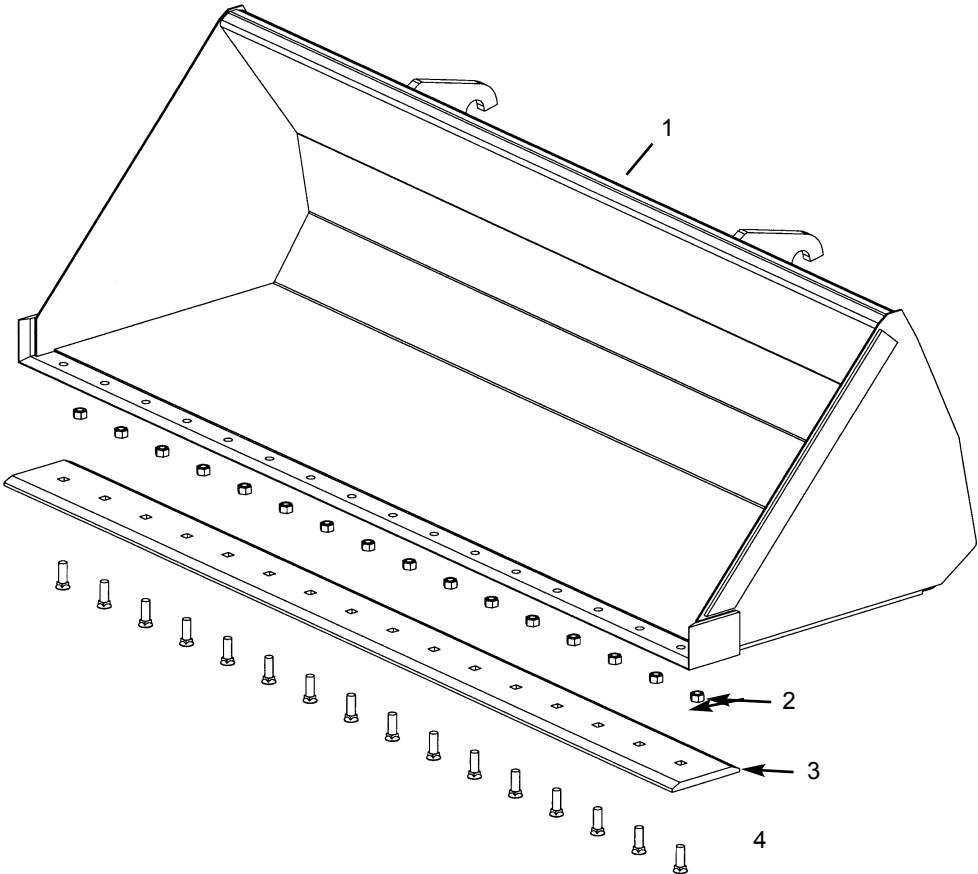


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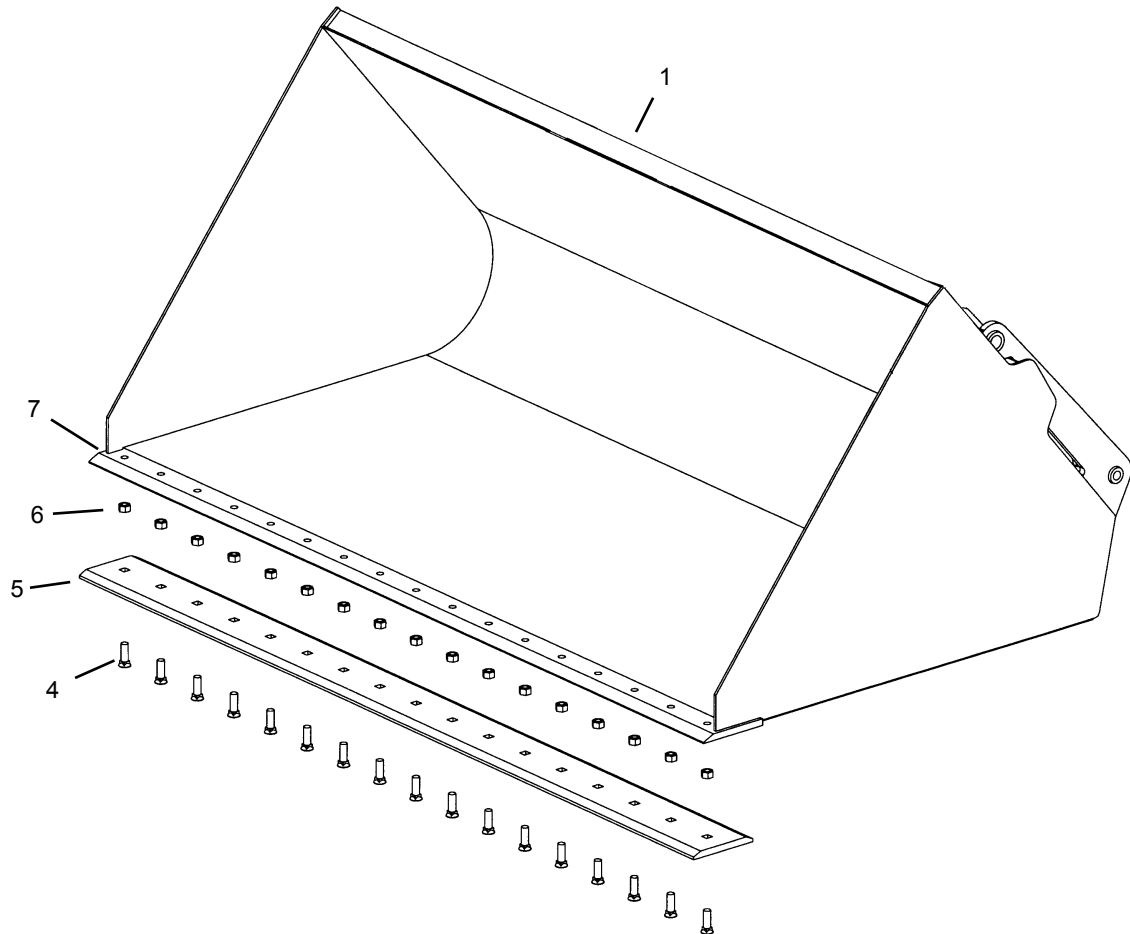
DynacARRIER® Truss Boom and Winch

Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	L500212	5' TRUSS	1	22	L60451	WINCH BALL.....	1
	L99238	12' TRUSS	1	23	L61411	PINTLE HOOK	1
	L500350	15' TRUSS	1	24	L50380	1/2"-20x1-1/4" GR 8 BOLT	4
02	L64294	HOSE, -8 A8/A8 53"	2	25	654030	1/2" LOCK WASHER.....	4
03	114742	ADAP., -8ORM -8JICM RUN TEE ..	1	26 ^d	088442	ADAP., -8JICFS -8JICM 90°	2
04	650706	1/4"-20"x2" BOLT.....	2				
	L520003	1/4"-20 NYLON INSERT NUT	2			-- ITEMS NOT SHOWN--	
05	054626	ADAP., -8ORM -8JICM STR	2	--	L500221	ADAPTER PLATE	1
06	L65273	COUPLER SET	1			(used with auger and other items)	
08	054816	ADAP., -8ORM -8JICM 90°	2				
09	L82358	RELIEF VALVE	1				
10 ^a	100963	HYDRAULIC WINCH.	1	a		Used on all 12' and 15' Truss Booms equipped with a winch and on 5' Truss Booms after attachment serial number 11182. The winch on 5' Jib Booms before attachment serial number 11183 is discontinued, order a new truss boom and winch.	
11	650569	1/2"-13x1-3/4" GR 8 BOLT	6				
12	L520019	1/2"-13 NYLON INSERT NUT	6				
13	089099	ADAP., -10ORM -8JICM	2	b		Used with 12' and 15' Truss Booms with winch.	
14	L400398	HOSE, -6 A8/A8 18.5"	2				
15	650733	5/16"x2-1/2" BOLT	2	c		Used with 5' Truss Booms with winch.	
16	100076	PIN, TRUSS WINCH	1				
17	L520004	5/16"-18 NYLON INSERT NUT	2	d		Not used on some attachments.	
18	L65338	WINCH SHEAVE	1	e		Order P/N L65273 Coupler Set	
19 ^b	L71266	3/8"x100' WINCH CABLE	1				
		(includes hook and swivel)					
19 ^c	L66946	3/8"x60' WINCH CABLE	1				
		(includes hook and swivel)					
20	650492	3/8"x2-1/2" BOLT	2				
21	654026	3/8" LOCK WASHER.....	2				

DynacARRIER® 1.3-Cubic-Yard Bucket



Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	L500189	BUCKET 1.3-CUBIC-YARD	1	03	L69167	REVERSIBLE CUTTING EDGE . . .	1
02	079209	3/4"-10 NYLON INSERT NUT	16	04	651351	3/4"-10x2-1/2" PLOW BOLT	16



Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
01	L500660	BUCKET 3-CUBIC-YARDS	1	06	651351	3/4"-10x2-1/2" PLOW BOLT	17
04	079209	3/4"-10 NYLON INSERT NUT	17	07	100323	WELD-ON EDGE W / HOLES.	1
05	100341	CUTTING EDGE - 101-3/8" LONG	1				

GENERAL INFORMATION



CAUTION

ALWAYS read and follow the safety precautions and information shown on decals. If any decals are damaged or unreadable, or if the unit is repainted, the decals must be replaced. If repainting, **BE SURE** that all decals that apply to your machine are affixed in their proper locations.

Decal locations information is provided to assist in the proper selection and application of new decals, in the event the original decals become damaged or the machine is repainted.

For correct replacement of decals, compare the location photographs to your machine before starting to refinish the unit. Check off each required decal using the illustration reference number to find the part number, description and quantity in the list. Refer to the appropriate illustration for replacement location.

NOTE: Refer to the *SAFETY* chapter of the *Operator's Manual* for specific information provided on the various safety decals.



IMPORTANT

If replacing a part that has a decal affixed to it, BE SURE to order and apply a new decal to the replacement part.

NEW DECAL APPLICATION

Before applying the new decals, surfaces must be free from dirt, dust, grease and other foreign material. To apply a solid-formed decal, remove the smaller portion of the decal backing paper and apply this part of the exposed adhesive backing to the clean surface while maintaining proper position and alignment. Slowly peel off the other portion of the backing paper while applying hand pressure to smooth out decal surface. To apply a pre-mask decal, first remove the backing paper to expose the adhesive side of the decal. Then, properly orient and position the decal onto the clean mounting surface. After the decal is firmly applied and smoothly pressed down, peel off the top covering paper.

PAINT FINISH

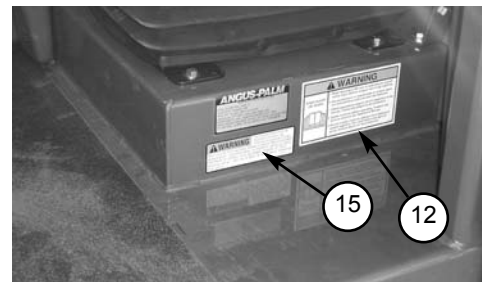
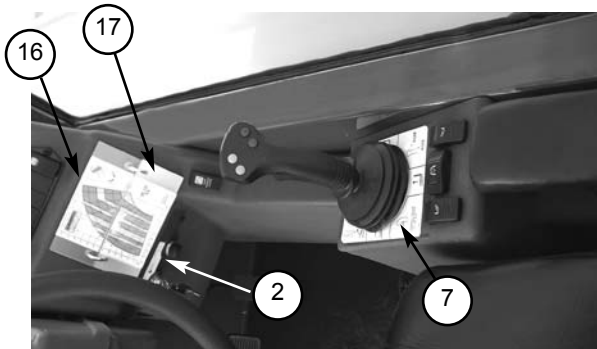
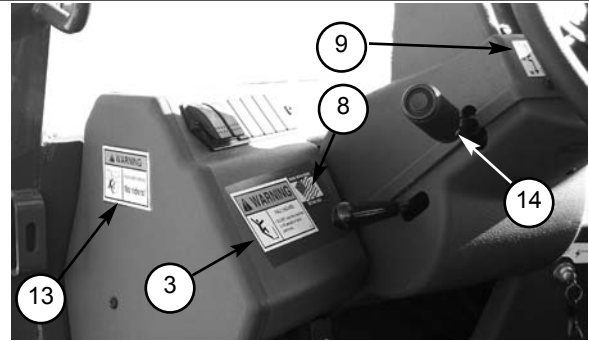
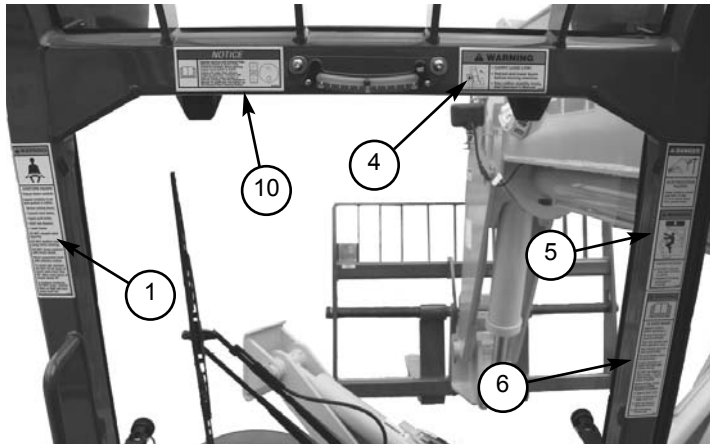
Use this list to order paint for refinishing:

167788	One Gal. Yellow
167789	6 (12-oz. Spray Cans) Yellow
167754	One Gal. Gun-Metal Gray
167755	6 (12-oz. Spray Can) Gun-Metal Gray

Decal Kits

50220206	Decal Kit, DL7 IT4 w/o PWP
50220207	Decal Kit, DL7 IT4 w/ PWP
50220208	Decal Kit, DL9 IT4 w/o PWP
50220209	Decal Kit, DL9 IT4 w/ PWP
50220210	Decal Kit, DL11-44 IT4 w/o PWP
50220211	Decal Kit, DL11-44 IT4 w/ PWP
50220212	Decal Kit, DL11-55 IT4 w/o PWP
50220213	Decal Kit, DL11-55 IT4 w/ PWP
50220214	Decal Kit, DL12 IT4 w/o PWP
50220215	Decal Kit, DL12 IT4 w/ PWP

NOTE: Decals can be purchased in one of the above kits, or purchased separately; refer to the following pages for individual decals.

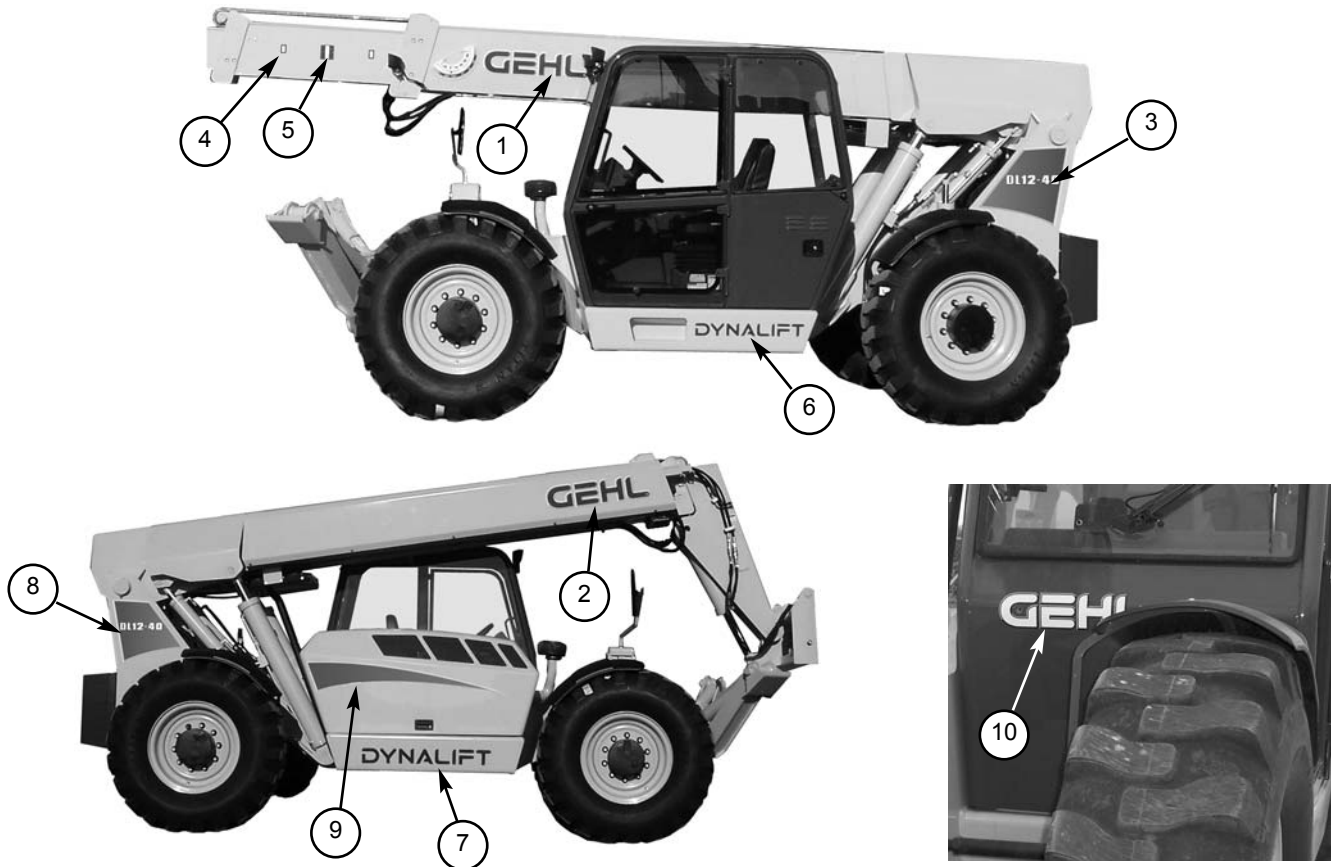


REF. NO.	DESCRIPTION	DL7	DL9	DL11	DL12
01	WARNING - SEAT BELT AND PARK BRAKE	101506	101506	101506	101506
02	IGNITION	101507	101507	101507	101507
03	DANGER - PERSONAL INJURY <i>(units w/o PWP)</i>	L65928	L65928	L65928	L65928
04	WARNING - CARRY LOAD LOW	093475	093475	093475	093475
05	DANGER - HIGH VOLTAGE/MOVING PARTS	L70307	L70307	L70307	L70307
06	WARNING - TILT HAZARD/GENERAL OPERATION	L70306	L70306	L70306	L70306
07	JOYSTICK CONTROL <i>(dual function w/ two buttons)</i>	L71377	L71377	L71377	L71377
08	JOYSTICK CONTROL <i>(tri-function w/ four buttons)</i>	L71332	L71332	L71332	L71332
09	MADE IN USA	140516	140516	140516	140516
10	F-N-R SHIFTER	L68295	L68295	L68295	L68295
11	EXHAUST FILTER NOTICE	50380943	50380943	50380943	50380943
12	MAINTENANCE CHART	50380376	50380376	50380376	50380376
13	OPERATOR MANUAL	100359	100359	100359	100359
14	WARNING - NO RIDERS	L65932	L65932	L65932	L65932
15	SHIFTER 1,2,3,4	L500439	L500439	L500439	L500439
16	ROPS FOPS WARNING	105099	105099	105099	105099
17	LOAD ZONE CHARTS	See Operator's Manual #50960019	103376	103376	103376
	PWP LOADCHART USAGE <i>(units w/o PWP)</i>	103376	103376	103376	103376

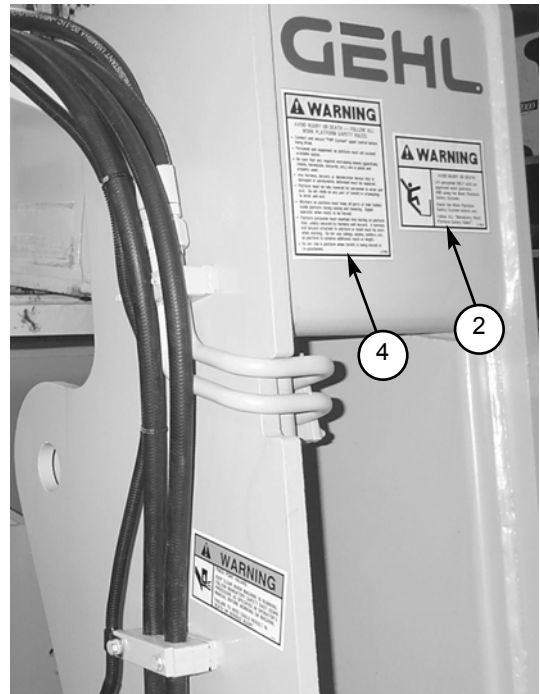
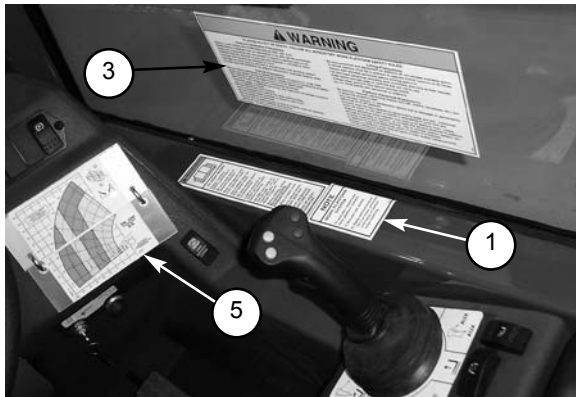
Decals

Frame and Boom

DL Series Dynalift



REF. NO.	DESCRIPTION	DL7	DL9	DL11	DL12
01	GEHL, 6.75"	184069	184069	184069	184069
02	GEHL, 8.0"	102025	102025	102025	102025
03	DL7-44 (Left Side)	105671	---	---	---
	DL9-44 (Left Side)	---	105673	---	---
	DL11-44 (Left Side)	---	---	105675	---
04	DL11-55 (Left Side)	---	---	105677	---
05	DL12-40 (Left Side)	---	---	---	105679
	HALF ZONE MARKER (5 ea. DL12, 6 ea. all others)	L62583	L62583	L62583	L62583
	"1" EXTENSION MARK (1 ea.)	L67719	L67719	L67719	L67719
	"2" EXTENSION MARK (1 ea.)	L67720	L67720	L67720	L67720
06	"3" EXTENSION MARK (1 ea.)	L67721	L67721	L67721	L67721
07	"4" EXTENSION MARK (1 ea.)	L67722	L67722	L67722	L67722
	"5" EXTENSION MARK (1 ea.)	L67723	L67723	L67723	L67723
	DYNALIFT, 3-1/4"	103357	103357	103357	103357
	DYNALIFT, 4-1/2"	103358	103358	103358	103358
08	DL7-44 (Right Side)	105670	---	---	---
	DL9-44 (Right Side)	---	105672	---	---
	DL11-44 (Right Side)	---	---	105674	---
	DL11-55 (Right Side)	---	---	105676	---
	DL12-40 (Right Side)	---	---	---	105678
09	DL Hood Swoosh	105680	105680	105680	105680
10	GEHL, 3.75"	184043	184043	184043	184043



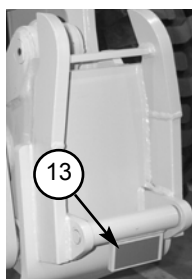
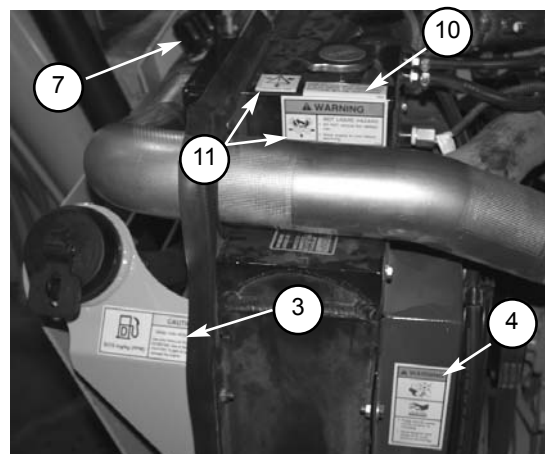
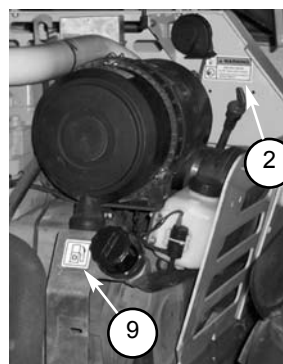
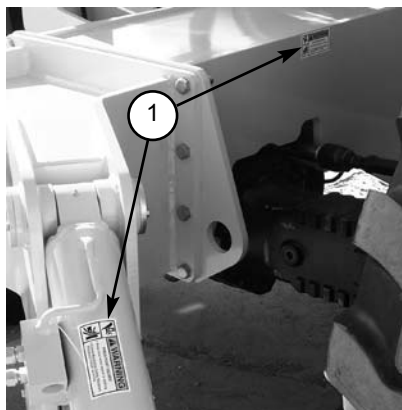
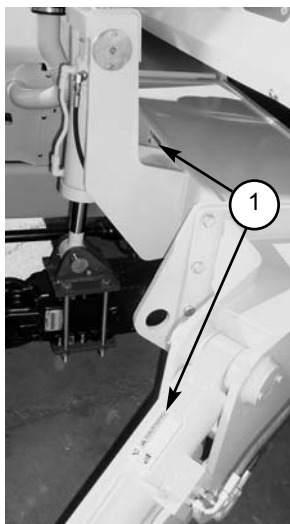
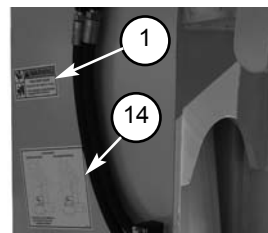
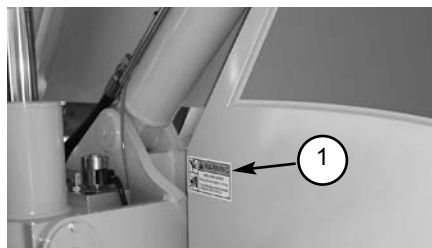
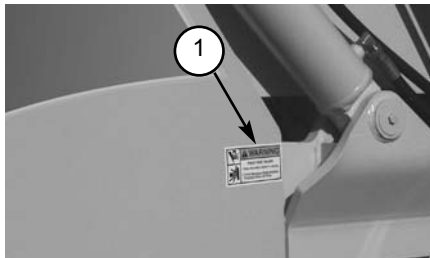
REF. NO.	DESCRIPTION	DL7	DL9	DL11	DL12
01	PWP SWITCH INSTRUCTION	102969	102969	102969	102969
02	PERSONNEL LIFT	L71554	L71554	L71554	L71554
03	WORK PLATFORM RULES	L71555	L71555	L71555	L71555
04	PERSONNEL LIFT SAFETY RULES	L71700	L71700	L71700	L71700
05	PWP LOAD ZONE CHART	See Note	See Note	See Note	See Note
06	PWP SYSTEM	103028	103028	103028	103028

Note: Refer to Operator's Manual for Load Zone Charts part numbers.

Decals

Various

DL Series Dynalift



REF. NO.	DESCRIPTION	DL7	DL9	DL11	DL12
01	WARNING - PINCH POINT	L65927	L65927	L65927	L65927
02	DANGER - JUMPSTART	L65933	L65933	L65933	L65933
03	DIESEL FUEL	50301416	50301416	50301416	50301416
04	DANGER - HANDS OUT	L70305	L70305	L70305	L70305
05	GEHL, 2.0 "	102026	102026	102026	102026
06	GEHL, 5.--"	102027	102027	102027	102027
07	HYDRAULIC OIL	072794	072794	072794	072794
08	ACCUMULATOR DISCHARGE	L70238	L70238	L70238	L70238
09	DIESEL FUEL	072797	072797	072797	072797
10	ANTI-FREEZE	056859	056859	056859	056859
11	COOLANT UNDER PRESSURE	072798	072798	072798	072798
12	PERSONAL INJURY	L65928	L65928	L65928	L65928
13	DYNATTACH UNLOCKED	L66613	L66613	L66613	L66613
14	DYNATTACH DIAGRAM	L65937	L65937	L65937	L65937

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005073	39	03	079026	251	18	100751	61	19	101704	11	26
054626	103	08	079038	55	29	100963	259	10	101709	22	11
054626	59	04	079038	67	09	100963	269	10	101709	23	07
054816	153	05	079209	255	02	100990	249	27	101710	23	14
054816	195	07	079209	270	02	100990	265	27	101711	11	25
054818	167	09	079769	69	01	101002	265	18	101713	11	27
054818	169	10	080313	241	06	101003	249	16	101714	11	26
054820	183	12	080319	239	06	101003	265	16	101716	11	—
054856	55	02	080319	240	06	101028	135	05	101717	17	11
054856	57	18	080319	242	05	101055	149	01	101717	19	11
054994	163	14	080319	243	06	101158	13	20	101719	22	16
054994	201	04	080556	181	11	101212	135	28	101720	11	16
054994	257	09	080556	187	04	101212	143	28	101721	11	17
055005	159	03	081377	64	08	101240	247	02	101722	20	02
055005	161	09	084175	71	24	101240	261	02	101723	19	29
055005	195	02	087850	66	11	101241	247	02	101724	20	01
055005	55	46	088117	167	02	101241	261	02	101725	15	02
055005	63	16	088117	169	01	101278	25	32	101726	15	01
055064	77	04	088442	259	26	101319	172	04	101727	21	05
056859	277	10	088442	269	26	101319	172	05	101728	21	12
061946	67	01	089069	25	33	101351	146	02	101729	21	13
062023	66	06	089099	167	34	101351	147	02	101730	21	14
064260	157	18	089099	259	13	101351	149	03	101732	21	03
064260	157	45	089099	269	13	101356	11	—	101733	20	08
064260	71	18	090666	118	10	101364	53	16	101737	23	04
064354	64	14	090666	31	14	101378	25	35	101738	23	08
064644	179	13	090666	53	15	101378	27	29	101739	23	09
065415	155	28	090666	99	05	101378	29	29	101740	23	10
065415	157	25	091039	101	01	101397	51	15	101741	23	11
067761	155	27	091039	185	03	101421	51	11	101742	23	12
067761	157	24	093475	273	04	101422	51	05	101743	22	13
067847	51	16	094554	263	09	101436	51	14	101743	23	13
067847	64	10	095601	147	13	101439	55	30	101744	23	15
068938	171	17	095601	175	02	101439	67	08	101745	23	16
068938	197	04	095601	35	08	101453	51	08	101746	23	17
069194	175	09	095955	27	37	101487	11	04	101747	23	18
069194	35	15	095955	29	37	101491	25	08	101748	23	19
071043	61	30	098691	181	01	101492	25	05	101751	23	24
072580	151	02	100071	41	17	101493	25	10	101752	23	25
072580	155	26	100076	259	16	101493	41	19	101753	22	04
072580	157	26	100076	269	16	101494	25	13	101754	22	10
072587	155	14	100091	33	11	101495	17	24	101755	22	12
072587	163	13	100102	49	18	101495	19	24	101756	22	14
072602	147	22	100112	145	01	101506	273	01	101757	22	15
072615	55	34	100114	145	01	101507	273	02	101759	22	21
072794	277	07	100118	146	03	101508	27	—	101761	21	—
072797	277	09	100118	147	03	101508	29	—	101764	15	—
072798	277	11	100118	149	04	101524	25	12	101767	11	23
072806	101	02	100119	143	16	101528	25	14	101773	11	12
072806	185	11	100119	145	01	101550	25	06	101774	11	10
072916	61	25	100249	146	01	101624	247	02	101790	21	11
075235	153	03	100249	147	01	101624	249	26	101792	23	15
075235	179	09	100323	271	07	101624	261	02	101793	23	26
075235	57	03	100341	271	05	101624	265	26	101794	23	28
076002	137	13	100359	273	12	101625	247	02	101814	171	16
076143	167	33	100369	247	03	101625	249	26	101825	27	15
076880	101	07	100369	247	04	101625	261	02	101825	29	15
076880	175	03	100369	261	03	101625	265	26	101840	27	10
076880	35	09	100501	33	11	101650	27	35	101840	29	10
077965	179	23	100547	253	27	101650	29	35	101841	27	08
077965	67	02	100547	267	27	101667	11	06	101841	29	08

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101843	09	12	102611	115	20	103161	13	14	104016	219	02
101843	27	09	102612	109	20	103161	25	—	104033	51	31
101843	29	09	102612	115	20	103179	19	—	104065	42	04
101848	09	13	102615	109	04	103180	17	—	104078	42	03
101848	27	32	102621	111	21	103188	13	14	104083	220	01
101848	29	32	102622	111	04	103194	181	12	104084	221	01
101849	27	31	102627	111	12	103194	183	16	104114	61	—
101849	29	31	102627	117	08	103357	274	06	104223	220	10
101881	175	01	102628	111	13	103358	274	07	104223	221	09
101881	35	17	102628	117	09	103376	273	17	104304	220	13
101902	11	08	102631	111	17	103391	111	27	104304	221	12
101903	11	15	102632	117	06	103413	185	07	104320	209	13
101905	20	03	102633	111	26	103413	191	07	104452	66	22
101906	23	—	102634	111	25	103413	193	07	104454	61	10
101907	22	—	102655	45	—	103413	217	01	104455	65	05
101908	21	15	102742	09	00	103425	185	09	104504	109	46
101909	22	18	102743	13	36	103425	191	09	104504	115	46
101909	23	23	102779	99	11	103425	193	09	104517	109	33
101910	22	19	102781	99	09	103475	46	07	104517	115	33
101912	23	22	102840	101	03	103475	47	10	104518	105	05
101914	11	13	102840	173	06	103476	46	06	104546	109	64
101960	53	08	102864	13	34	103476	47	11	104546	115	64
101963	53	08	102866	13	35	103479	47	01	104568	105	06
101974	11	01	102897	117	07	103480	47	08	104568	109	31
101999	249	18	102968	47	12	103482	47	02	104568	115	31
102025	274	02	102969	275	01	103505	185	02	104569	105	07
102026	277	05	103010	27	21	103505	191	02	104569	109	30
102027	277	06	103010	29	21	103505	193	02	104569	115	30
102173	09	01	103013	17	—	103506	185	01	104655	111	05
102262	66	02	103028	275	06	103506	191	01	104655	117	14
102408	43	01	103046	209	08	103506	193	01	104657	111	09
102569	99	08	103047	209	14	103508	217	02	104658	111	10
102570	99	08	103048	209	11	103509	217	04	104675	47	04
102581	109	02	103049	209	17	103510	217	03	104725	13	26
102581	115	02	103050	209	16	103511	217	02	104736	207	06
102583	109	57	103051	209	18	103512	217	04	104736	217	08
102583	115	57	103052	209	09	103513	217	—	104844	247	02
102587	109	58	103052	210	04	103514	217	—	104844	261	02
102587	115	58	103053	209	15	103517	249	01	104867	77	01
102587	99	07	103053	210	02	103517	265	01	104869	97	37
102588	109	15	103054	209	01	103518	249	01	104870	247	01
102588	115	15	103056	209	04	103518	265	01	104885	66	24
102589	109	23	103057	209	02	103519	249	01	104904	161	10
102589	115	23	103058	209	03	103519	265	01	104952	13	31
102590	109	19	103059	209	06	103520	249	01	104963	47	—
102590	115	19	103059	210	—	103520	265	01	105054	69	08
102591	109	25	103061	209	05	103528	267	24	105059	69	14
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102593	109	24	103065	209	04	103873	51	25	105069	261	01
102593	115	24	103066	209	02	103878	197	01	105070	09	15
102595	109	14	103067	209	03	103878	219	01	105070	69	11
102595	115	14	103068	209	07	103899	179	06	105071	09	07
102601	109	51	103086	210	03	103900	155	13	105071	69	10
102601	115	51	103087	210	05	103900	157	48	105082	95	01
102603	109	49	103099	46	—	103900	179	17	105082	97	01
102603	115	49	103099	47	—	103901	159	24	105086	65	10
102608	109	36	103101	13	23	103901	161	18	105099	273	15
102608	115	36	103104	13	25	103901	179	15	105103	25	—
102610	109	20	103159	13	13	103902	163	12	105103	77	—
102610	115	20	103160	13	14	103902	165	37	105103	79	11
102611	109	20	103160	25	—	103902	179	14	105103	95	07

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105104	25	—	106006	105	10	106045	115	34	106090	115	13
105104	79	12	106006	109	53	106046	109	35	106091	117	01
105105	71	17	106006	111	02	106046	115	35	106092	117	02
105159	179	01	106007	107	01	106047	109	37	106093	117	03
105159	209	20	106007	113	01	106047	115	37	106094	117	04
105161	159	25	106008	107	02	106048	109	38	106095	117	05
105161	161	15	106008	113	02	106048	115	38	106096	117	13
105161	179	21	106009	107	03	106049	109	39	106097	117	18
105164	159	13	106009	113	03	106049	115	39	106098	105	14
105164	161	14	106010	107	04	106050	109	40	106099	105	15
105164	179	16	106010	113	04	106050	115	40	106100	105	16
105165	210	01	106011	107	04	106051	109	41	106101	105	17
105166	167	01	106011	113	04	106051	115	41	106102	107	09
105166	179	24	106012	107	04	106052	109	42	106102	113	09
105167	179	12	106012	113	04	106052	115	42	106118	109	06
105167	67	05	106013	107	04	106053	109	43	106120	109	32
105175	66	21	106013	113	04	106053	115	43	106124	105	24
105202	99	04	106014	107	05	106054	109	47	106125	105	24
105203	99	04	106015	107	06	106054	115	47	106871	105	11
105215	69	06	106015	113	06	106055	109	48	106886	212	03
105236	35	23	106016	107	31	106055	115	48	106887	212	03
105285	79	03	106016	113	31	106056	109	52	106888	215	05
105286	79	04	106017	107	31	106056	115	52	106898	181	06
105556	209	06	106017	113	31	106058	109	62	106898	183	06
105557	209	19	106018	107	31	106058	115	62	106898	185	13
105609	79	05	106018	113	31	106059	109	63	106898	213	01
105610	79	02	106019	107	31	106059	115	63	106899	187	10
105611	79	06	106019	113	31	106060	109	66	106899	189	05
105615	79	10	106020	107	31	106060	115	66	106899	191	12
105625	57	02	106020	113	31	106061	111	01	106899	193	12
105670	274	08	106023	107	10	106062	111	03	106899	212	01
105671	274	03	106023	113	10	106063	111	11	106959	243	02
105672	274	08	106024	107	11	106064	111	14	106960	243	04
105673	274	03	106024	113	11	106064	117	10	106961	243	02
105674	274	08	106025	107	12	106065	111	15	106962	243	08
105675	274	03	106025	113	12	106065	117	11	106965	47	05
105676	274	08	106026	107	13	106066	111	16	107000	206	04
105677	274	03	106026	113	13	106066	117	12	107000	207	04
105678	274	08	106027	107	16	106067	111	19	107001	39	24
105679	274	03	106028	107	17	106068	111	20	109892	213	05
105680	274	09	106029	107	17	106069	111	22	110227	203	07
105691	67	03	106030	107	17	106070	111	23	114742	167	27
105753	37	05	106031	107	18	106071	111	24	114742	171	09
105756	37	03	106032	107	19	106072	111	24	114742	259	03
105757	37	02	106033	107	20	106073	111	24	114742	269	03
105758	37	01	106034	107	21	106074	105	14	121552	239	05
105818	09	04	106034	113	19	106075	105	12	121565	243	03
105836	25	01	106035	107	22	106076	105	11	121684	66	16
105841	53	06	106035	113	20	106077	105	13	121684	77	10
105848	66	14	106036	107	23	106078	105	18	122778	167	15
105848	66	15	106036	113	21	106079	105	22	122778	187	13
105848	77	14	106037	107	24	106080	105	21	122778	189	13
105848	77	15	106038	107	25	106081	105	23	126862	195	06
105851	97	45	106039	107	26	106082	113	05	127349	55	24
105969	79	13	106040	109	01	106083	113	16	127349	67	14
106001	25	00	106041	109	06	106084	113	17	129124	167	31
106001	25	40	106042	109	13	106085	113	18	131522	55	33
106002	105	02	106043	109	21	106086	113	22	131799	49	25
106003	105	03	106043	115	21	106087	113	23	131940	49	22
106004	105	08	106044	109	32	106088	115	01	131951	71	16
106005	105	09	106045	109	34	106089	115	06	133074	66	05

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136226	77	13	210275	245	12	211096	51	28	50220033	107	29
136304	25	41	210-32160	13	12	211127	71	30	50220033	113	29
136304	27	30	210-32160	147	08	211140	66	23	50220034	107	29
136304	29	30	210382	179	01	211141	66	10	50220034	113	29
137049	55	15	210382	209	20	211151	66	04	50220035	107	29
137049	57	05	210403	41	26	211161	177	14	50220035	113	29
137220	233	05	210404	41	28	211161	207	12	50220036	107	29
137220	235	07	210405	41	27	211161	212	04	50220036	113	29
137221	231	09	210407	247	01	211161	213	08	50220037	107	29
137221	238	07	210408	261	01	211161	215	07	50220037	113	29
137497	13	14	210420	25	19	211162	212	—	50220038	107	29
137502	27	34	210421	203	16	211238	177	01	50220038	113	29
137502	29	34	210421	205	12	211240	207	03	50220039	107	29
137542	157	01	210423	203	17	211241	71	22	50220039	113	29
137542	165	01	210425	205	13	211257	71	04	50220040	107	29
137659	69	12	210447	203	11	211264	71	20	50220040	113	29
137784	167	06	210447	205	07	211306	66	12	50220041	107	28
137784	185	05	210492	77	09	218439	51	26	50220041	113	28
138563	29	18	210600	103	03	219274	13	01	50220042	107	28
138623	29	11	210600	173	10	230-18127	167	12	50220042	113	28
138649	31	18	210601	101	04	230-21555	157	44	50220043	107	28
138651	31	11	210601	171	03	230-21555	165	35	50220043	113	28
138714	31	10	210602	101	08	230-24749	57	07	50220044	107	28
138777	31	04	210602	172	03	230-30569	163	18	50220044	113	28
138778	29	28	210603	101	09	230-30569	165	12	50220045	107	27
138778	31	03	210603	175	06	230-32195	167	16	50220045	113	27
138779	31	29	210603	35	12	230-32195	173	04	50220046	107	17
140516	273	08	210649	53	20	230-32364	173	03b	50220047	115	66
140883	151	06	210722	57	14	230-32364	222	03	50220048	113	16
140883	179	18	210736	245	16	230-32674	159	12	50220049	107	16
140883	195	05	210759	135	09	230-32674	161	11	50220050	113	23
167754	272	00	210760	135	08	230-32674	163	11	50220051	107	26
167755	272	00	210777	47	09	230-32674	179	11	50220052	113	17
167788	272	00	210807	181	13	230-32694	173	05	50220053	113	18
167789	272	00	210807	183	17	230-32753	147	16	50220054	107	21
175720	254	12	210867	47	03	240197	212	02	50220054	113	19
175720	257	04	210887	165	34	240197	213	06	50220055	107	23
175720	263	04	210888	157	34	240197	215	02	50220055	113	21
184043	274	10	210898	257	05	240202	213	07	50220056	109	56
184069	274	01	210898	263	05	240202	215	03	50220056	115	56
188973	77	07	210901	243	01	240202	215	04	50220057	115	37
192587	69	03	210901	257	08	244655	213	07	50220061	47	07
210004	65	11	210901	263	08	244655	215	04	50220068	111	07
210016	245	10	210904	257	10	271341	31	20	50220068	117	16
210018	206	02	210904	263	10	420-19671	65	06	50220164	64	16
210019	37	04	210905	257	11	420-19671	66	25	50220168	09	09
210047	61	35	210905	263	11	420-35602	63	02	50220173	09	02
210049	61	21	210906	257	13	420-35602	77	23	50220174	09	03
210086	17	—	210906	263	13	430170	261	01	50220186	13	27
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210246	99	12	210993	165	34	50220031	113	29	50220207	272	00
210247	99	12	210994	157	34	50220032	107	29	50220208	272	00
210270	245	14	211094	263	01	50220032	113	29	50220209	272	00

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50220211	272	00	50380300	71	15	50380579	19	03	650488	146	12
50220212	272	00	50380301	71	14	50380583	17	04	650490	126	07
50220213	272	00	50380311	66	09	50380583	19	04	650490	73	01
50220214	272	00	50380312	66	07	50380586	17	01	650491	131	10
50220215	272	00	50380313	66	08	50380586	19	01	650491	99	06
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50220222	64	06	50380315	61	—	50380614	63	26	650493	249	08
50220223	64	15	50380323	25	—	50380616	63	01	650493	251	33
50220224	64	11	50380323	61	—	50380619	39	22	650493	265	08
50220225	64	03	50380324	11	00	50380622	63	24	650494	161	05
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50220227	64	04	50380328	11	00	50380628	63	12	650494	261	06
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50220626	46	05	50380339	222	11	50380705	71	09	650500	263	12
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50220632	217	09	50380367	55	23	50380893	19	00	650545	157	06
50220633	217	09	50380367	67	13	50380943	273	10	650545	165	06
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50380232	253	27	50380469	19	25	650485	132	02	650692	267	16
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50380272	09	06	50380518	61	33	650487	41	18	650725	165	17
50380273	217	06	50380576	17	02	650487	74	12	650731	155	19

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650733	259	15	654022	218	11	L47265	245	07	L500133	218	12
650733	269	15	654022	27	03	L47270	99	01	L500134	218	08
650742	249	17	654022	29	03	L47270	99	01	L500135	218	09
650742	265	17	654022	33	07	L48179	231	14	L500147	27	13
650784	171	05	654022	37	11	L48805	159	23	L500147	29	13
650810	131	04	654022	51	10	L48868A	241	09	L500148	27	19
650810	64	13	654024	149	08	L49618	123	04	L500148	29	19
650818	125	06	654024	203	02	L49618	125	10	L500150	27	25
650818	157	17	654026	145	07	L49619	123	03	L500150	29	25
650833	147	20	654026	179	03	L49619	125	09	L500151	27	07
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650834	49	20	654030	247	06	L500001	19	15	L500152	27	05
650835	51	09	654030	261	06	L500004	17	17	L500152	29	05
650835	63	03	654049	51	13	L500004	19	17	L500157	27	01
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650839	253	10	655006	49	03	L500019	15	07	L500159	27	17
650839	267	10	656006	61	03	L500019	21	04	L500159	29	17
650839	35	20	656008	71	05	L500020	20	06	L500160	27	16
65086	57	12	656008	71	06	L500020	22	05	L500160	29	16
650936	13	31	656010	61	29	L500021	15	12	L500161	27	24
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651125	77	17	656117	61	11	L500024	21	09	L500163	27	23
651202	71	23	656131	61	27	L500025	15	06	L500163	29	23
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651351	270	04	L10057	267	06	L500028	15	07	L500197	261	01
651351	271	06	L10465	229	02	L500030	15	04	L500212	269	01
651358	259	30	L10465	237	02	L500031	15	05	L500213	255	01
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651602	29	35	L400398	259	14	L500037	23	05	L500223	259	—
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654006	249	15	L447005	61	23	L500126	218	03	L500375	77	—
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654009	49	12	L448013	147	24	L500131	218	06	L500403	29	28

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L500440	83	01	L500665	29	28	L500784	163	01	L50562	254	09
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L500466	113	14	L500688	220	04	L50084	203	15	L50562	257	06
L500467	107	15	L500688	221	03	L50084	205	11	L50562	263	06
L500467	113	15	L500689	220	06	L50084	59	02	L50562	61	14
L500483	109	03	L500689	221	05	L50092	123	10	L50562	73	08
L500483	115	03	L500690	220	09	L50092	125	15	L50592	74	04
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L500488	109	12	L500692	220	08	L50092	135	32	L50608	119	03
L500488	115	12	L500692	221	07	L50092	141	05	L50608	159	04
L500489	109	10	L500695	17	22	L50092	143	11	L50628	53	13
L500489	115	10	L500695	19	22	L500961	218	11	L50646	149	12
L500490	109	11	L500696	17	13	L500966	23	21	L50655	13	19
L500490	115	11	L500696	19	13	L500967	22	20	L50679	177	08
L500496	105	19	L500697	17	19	L500968	175	01	L50705	61	36
L500496	111	06	L500697	19	19	L50101	35	21	L50706	77	16
L500496	117	15	L500700	17	06	L50136	131	07	L50718	249	22
L50051	25	—	L500700	19	06	L50139	15	04	L50718	265	22
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L500529	111	18	L500701	19	20	L50149	11	19	L50741	181	10
L50056	128	10	L500703	17	07	L50156	159	01	L50743	187	11
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L500569	13	22	L500706	17	05	L50174	53	18	L50744	189	04
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L500578	27	—	L500709	19	18	L50242	255	10	L50877	153	20
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L500585	147	23	L500718	17	14	L50251	127	06	L50877	163	07
L500591	33	01	L500718	19	14	L50251	128	09	L50877	165	23
L500592	33	02	L500719	17	10	L50251	129	11	L50878	197	13
L500593	33	03	L500719	19	10	L50251	145	08	L50952	73	16
L500594	33	04	L500721	223	05	L50251	153	14	L50956	119	05
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L500596	33	10	L500724	223	06	L50282	131	35	L50982	265	02
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L500601	87	01	L500745	213	02	L50301	11	05	L50986	149	05
L500602	87	13	L500746	213	04	L50305	31	22	L510003	247	04
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L500603	87	14	L500747	13	21	L50333	254	02	L510003	251	03
L500603	89	14	L500747	25	00	L50333	255	04	L510003	261	05
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L500607	22	20	L500757	237	07	L50380	135	07	L51035	133	11
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L500652	221	06	L500761	243	05	L50385	59	03	L51042	53	—
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L500653	221	11	L500762	243	03	L50463	119	12	L51972	167	13
L500656	220	05	L500763	242	02	L50463	132	06	L51972	169	13

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L520004	165	20	L63015	225	01	L64367	225	12	L66782	129	08
L520005	123	07	L63016	203	18	L64367	235	02	L66783	129	09
L520005	137	05	L63016	225	02	L64384	123	15	L66783	141	02
L520019	149	06	L63017	231	11	L64466	123	08	L66783	143	03
L520019	251	01	L63018	153	07	L64466	125	13	L66805	253	27
L52048	118	05	L63018	231	04	L64467	125	12	L66805	267	27
L52048	131	05	L63143	257	03	L64467	129	05	L66809	253	26
L530004	119	08	L63143	263	03	L64468	123	14	L66809	267	26
L530004	121	04	L63222	99	—	L64524	175	10	L66811	253	08
L530004	132	03	L63233	251	27	L64524	35	16	L66811	267	08
L530004	51	24	L63468	251	35	L64559	161	02	L66831	253	17
L560003	125	12	L63475	135	17	L64561	247	02	L66831	267	17
L560003	129	06	L63546	55	19	L64561	249	26	L66918	254	10
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L60451	269	22	L63593	253	09	L64764	71	27	L66931	254	06
L60587	13	28	L63593	267	09	L64795	77	02	L66931	255	06
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L61001	245	02	L63716	251	25	L64963	59	17	L66948	254	07
L61017	245	03	L63716	255	11	L65097	149	13	L66948	255	08
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L61287	265	28	L63717	165	21	L65180	249	14	L66950	255	19
L61307	249	04	L63719	157	32	L65180	265	14	L66958	251	08
L61307	265	04	L63719	163	20	L65181	249	03	L66986	13	15
L61411	259	23	L63719	165	15	L65181	265	03	L66993	13	17
L61411	269	23	L63720	157	33	L65211	55	37	L67099	146	11
L61699	128	07	L63720	163	19	L65211	57	17	L67100	146	11
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L61699	145	11	L63720	165	18	L65223	265	26	L67106	146	09
L61709	126	09	L63876	13	31	L65273	257	02	L67107	146	14
L61709	127	08	L63887	25	—	L65273	263	02	L67119	237	03
L61709	129	01	L63951	251	34	L65338	259	18	L67120	237	09
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L61866	267	05	L63970	251	17	L65570	61	24	L67246	267	04
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L62026	265	10	L63984	251	10	L65638	131	08	L67248	253	15
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L62715	139	03	L64078	25	—	L65927	277	01	L67341	163	05
L62715	141	03	L64078	41	—	L65928	273	03	L67347	253	01
L62731	127	02	L64122	241	03	L65928	277	12	L67347	267	01
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L62834	167	42	L64294	249	07	L66139	103	05	L67599	253	14
L62834	77	18	L64294	259	02	L66157	57	09	L67599	267	14
L62840	167	41	L64294	265	07	L66157	61	—	L67719	274	05
L62840	77	19	L64294	269	02	L66406	245	04	L67720	274	05
L62943	67	04	L64359	123	09	L66453	149	11	L67721	274	05

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L67723	274	05	L69309	67	10	L69725	203	03	L69929	39	13
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L68039	151	13	L69358	09	11	L69727	149	10	L69930	201	08
L68039	153	18	L69358	55	13	L69727	155	22	L69931	171	08
L68039	155	15	L69400	73	03	L69727	157	21	L69931	171	15
L68295	273	09	L69400	74	23	L69729	11	21	L69932	167	28
L68331	245	09	L69402	25	—	L69734	99	10	L69932	177	10
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L68337	255	16	L69448	159	11	L69747	206	01	L69933	35	13
L68493	247	02	L69449	155	30	L69755	41	25	L69933	55	39
L68493	261	02	L69450	155	31	L69756	41	23	L69934	167	32
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L68592	27	39	L69453	155	04	L69774	227	07	L69935	172	06
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L68711	206	00	L69468	51	32	L69776	205	04	L69935	35	11
L68804	185	06	L69473	51	17	L69789	39	15	L69944	155	01
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L69297	13	30	L69723	145	12	L69928	201	07	L70183	153	26
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L70198	51	34	L70463	11	25	L70719	251	31	L71042	165	25
L70200	49	14	L70463	13	20	L70798	31	07	L71043	157	27
L70201	41	16	L70465	167	21	L70806	151	03	L71043	165	14
L70212	41	07	L70486	11	16	L70863	131	01	L71046	157	35
L70216	49	19	L70486	15	09	L70863	132	01	L71046	165	28
L70225	49	04	L70486	21	02	L70894	135	01	L71071	25	37
L70226	49	07	L70486	25	15	L70894	137	19	L71071	41	21
L70227	49	08	L70493	167	08	L70912	139	01	L71072	25	36
L70229	167	10	L70493	169	12	L70912	141	26	L71072	41	20
L70229	169	08	L70495	222	10	L70956	132	05	L71073	25	38
L70229	211	01	L70495	225	13	L70962	133	01	L71073	41	22
L70234	55	09	L70501	25	02	L70964	161	12	L71074	25	31
L70238	277	08	L70502	229	10	L71000	131	29	L71075	25	18
L70241	11	25	L70502	233	11	L71000	141	29	L71076	25	27
L70242	118	02	L70521	61	12	L71001	131	25	L71076	25	28
L70242	131	02	L70528	195	01	L71001	141	25	L71077	25	21
L70244	11	—	L70528	197	14	L71003	141	20	L71078	25	29
L70245	11	—	L70528	218	01	L71003	143	07	L71079	25	30
L70246	11	—	L70558	39	21	L71004	131	22	L71080	25	30
L70247	11	—	L70589	167	35	L71005	131	23	L71082	25	20
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L70251	231	01	L70615	59	13	L71006	141	06	L71086	25	26
L70257	49	05	L70616	238	01	L71006	143	10	L71104	157	31
L70267	167	17	L70616	59	22	L71007	135	31	L71104	165	19
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L70274	235	04	L70618	59	19	L71008	135	22	L71160	245	13
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L70335	71	19	L70639	131	11	L71011	143	01	L71205	123	13
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L70385	203	05	L70689	197	07	L71020	135	16	L71213	141	27
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L70389	57	20	L70690	197	10	L71021	135	04	L71214	141	15
L70390	55	04	L70691	195	08	L71023	161	01	L71220	126	01
L70415	173	01	L70691	195	09	L71023	237	01	L71220	128	01
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L70417	13	08	L70692	55	35	L71034	157	03	L71245	139	13
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L70421	119	01	L70694	195	03	L71037	157	42	L71266	269	19
L70421	121	01	L70695	195	10	L71038	157	29	L71271	167	23
L70428	173	02	L70695	195	11	L71039	157	30	L71305	49	10
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L71360	181	09	L82358	269	09	L99056	235	06	L99694	85	01
L71360	183	14	L94770	82	10	L99074	241	04	L99695	85	02
L71377	273	07	L94818	82	11	L99122	229	08	L99696	85	04
L71389	141	11	L94824	95	06	L99122	233	09	L99696	92	05
L71413	55	17	L94849	87	08	L99122	237	08	L99697	85	05
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L71420	135	33	L94849	89	08	L99134	165	28	L99699	85	07
L71421	157	33	L94849	89	21	L99157	11	14	L99700	85	08
L71421	165	18	L94849	91	08	L99157	49	04	L99702	84	01
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L71520	33	—	L94898	89	32	L99191	247	01	L99705	84	04
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L71552	147	10	L96060	87	28	L99236	259	01	L99708	89	02
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L71691	42	01	L98266	89	29	L99668	81	08	L99718	89	27
L71700	275	04	L98312	81	32	L99669	81	09	L99718	91	14
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L71726	43	02	L98419	105	01	L99675	81	17	L99725	87	43
L71729	43	00	L98424	105	05	L99676	81	18	L99726	87	38
L71732	43	05	L98425	82	09	L99677	81	20	L99726	87	42
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L99740	92	10	L99807	75	04	L99917	229	13			
L99741	92	01	L99808	75	12	L99917	233	13			
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L99743	92	03	L99810	74	08	L99920	207	07			
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L99785	94	05	L99883	233	14						
L99786	82	02	L99885	233	08						
L99787	89	20	L99886	233	03						
L99796	74	22	L99888	233	06						
L99797	74	03	L99903	159	26						
L99798	74	11	L99903	161	16						
L99799	73	05	L99903	179	22						
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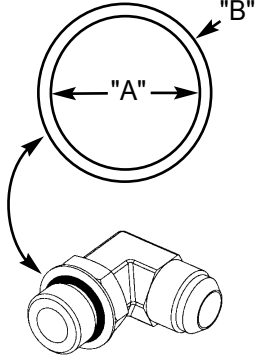
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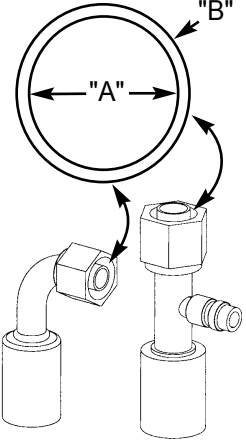
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O-RING TABLES

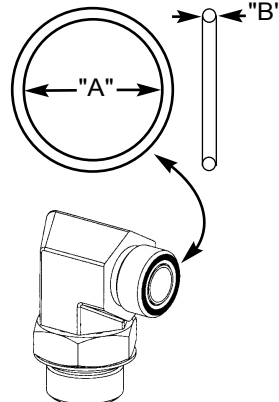
O-Ring Table — Male Boss Fittings

	Fitting Thread Size	Diameter "A"	Diameter "B"	Part Number
	9/16 - 18	0.468	0.078	055897
	3/4 - 16	0.644	0.087	055896
	7/8 - 14	0.755	0.097	055898
	1-1/16 - 12	0.924	0.116	048953
	1-5/16 - 12	1.171	0.116	058674
	1-5/8 - 12	1.475	0.118	077970
	A/C #6	0.312	0.453	138777
	A/C #8	0.437	0.578	138778
	A/C #10	0.562	0.703	138779

O-Ring Table — Air Conditioning Fittings

	A/C Fitting	Diameter "A"	Diameter "B"	Part Number
	A/C #6	0.312	0.453	138777
	A/C #8	0.437	0.578	138778
	A/C #10	0.562	0.703	138779

O-Ring Table — Face Seal Fittings

	Fitting Thread Size	Tube O.D.	Diameter "A"	Thickness "B"	Part Number
	9/16 - 18	1/4	0.301	0.070	50300165
	11/16 - 16	3/8	0.364	0.070	50300166
	13/16 - 16	1/2	0.489	0.070	50300167
	1-14 - 14	5/8	0.614	0.070	135124
	1-13/16 - 12	3/4	0.739	0.070	137205
	1-7/16 - 12	1	0.926	0.070	50300168

REFERENCE

ADAPTER (FITTINGS) TORQUE GUIDE

Use these torque values when tightening hydraulic, fuel, or coolant adapters (fittings).

SAE "O-Ring" Boss (Steel) Adapters					
Size		Pounds-Force Foot (lb.-ft.)		Newton Meter (N-m)	
Dash	Fractional	Minimum	Maximum	Minimum	Maximum
-3	3/16	8	10	11	13
-4	1/4	14	16	19	21
-5	5/16	18	20	24	27
-6	3/8	24	26	32	35
-8	1/2	50	60	68	81
-10	5/8	72	80	97	108
-12	3/4	125	135	170	183
-14	7/8	160	180	216	244
-16	1	200	220	271	298
-20	1-1/4	210	280	285	380
-24	1-1/2	270	360	366	488

JIC 37° and 45° (Machined or Flared) Adapters					
Size		Pounds-Force Foot (lb.-ft.)		Newton Meter (N-m)	
Dash	Fractional	Minimum	Maximum	Minimum	Maximum
-4	1/4	10	11	13	15
-5	5/16	13	15	17	20
-6	3/8	17	19	23	26
-8	1/2	34	38	46	51
-10	5/8	50	56	68	78
-12	3/4	70	78	95	106
-16	1	94	104	127	141
-20	1-1/4	124	138	168	187
-24	1-1/2	156	173	211	234
-32	2	219	243	297	329

REFERENCE

METRIC BOLT TORQUE GUIDE

Use these torque values when tightening hardware—excluding: lock nuts, thread-forming, self-tapping, and metal screws—unless otherwise specified.

Metric Coarse-Pitch Thread—(DRY)	All torque values are in Foot-Pounds and Newton Meters (Nm).				
	DIN 912, DIN 931, DIN 933, etc...			DIN 7984	
	8.8	10.9	12.9	8.8	10.9
M5	4.1 (5.5)	6 (8)	7 (10)	4 (5)	5 (7)
M6	7 (10)	10 (14)	13 (17)	6.3 (8.5)	9 (12)
M8	18 (25)	26 (35)	31 (42)	15 (20)	22 (30)
M10	33 (45)	48 (65)	59 (80)	30 (40)	44 (59)
M12	64 (87)	81 (110)	108 (147)	51 (69)	74 (100)
M14	100 (135)	133 (180)	170 (230)	81 (110)	118 (160)
M16	155 (210)	203 (275)	258 (350)	125 (170)	184 (250)
M18	207 (280)	302 (410)	354 (480)	181 (245)	254 (345)
M20	302 (410)	420 (570)	509 (690)	251 (340)	361 (490)
M22	406 (550)	575 (780)	686 (930)	339 (460)	487 (660)
M24	524 (710)	738 (1000)	878 (1190)	435 (590)	620 (840)
M27	767 (1040)	1092 (1480)	1305 (1770)	642 (870)	922 (1250)
M30	1047 (1420)	1482 (2010)	1770 (2400)	885 (1200)	1254 (1700)

Metric Coarse-Pitch Thread—(OILED)	All torque values are in Foot-Pounds and Newton Meters (Nm).				
	DIN 912, DIN 931, DIN 933, etc...				
	8.8	10.9	12.9		
M6-1	6 (8)	8 (11)	10 (14)		
M8-1.25	14 (19)	20 (27)	24 (33)		
M10-1.5	28 (38)	39 (53)	47 (63)		
M12-1.75	48 (65)	68 (91)	82 (111)		
M14-2	77 (103)	108 (146)	131 (177)		
M16-2	118 (160)	166 (224)	200 (271)		




Metric Fine-Pitch Thread—(DRY)	All torque values are in Foot-Pounds and Newton Meters (Nm).				
	DIN 912, DIN 931, DIN 933, etc...			DIN 7984	
	8.8	10.9	12.9	8.8	10.9
M8X1.0	18 (25)	27 (37)	32 (43)	16 (22)	24 (32)
M10X1.0	37 (50)	55 (75)	65 (88)	32 (43)	48 (65)
M10X1.25	36 (49)	52 (71)	61 (83)	31 (42)	46 (62)
M12X1.25	64 (87)	96 (130)	111 (150)	55 (75)	81 (110)
M12X1.5	61 (83)	92 (125)	107 (145)	53 (72)	77 (105)
M14X1.5	100 (135)	148 (200)	173 (235)	89 (120)	129 (175)
M16X1.5	155 (210)	229 (310)	266 (360)	133 (180)	195 (265)
M18X1.5	232 (315)	332 (450)	391 (530)	199 (270)	284 (385)
M20X1.5	325 (440)	465 (630)	538 (730)	277 (375)	391 (530)
M22X1.5	435 (590)	620 (840)	723 (980)	369 (500)	524 (710)
M24X2.0	546 (740)	789 (1070)	922 (1250)	465 (630)	664 (900)
M27X2.0	811 (1100)	1143 (1550)	1328 (1800)	679 (920)	959 (1300)
M30X2.0	1106 (1500)	1586 (2150)	1844 (2500)	959 (1300)	1364 (1850)

REFERENCE

SAE BOLT TORQUE GUIDE

Use these torque values when tightening hardware—excluding: lock nuts, thread-forming, self-tapping, and metal screws—unless otherwise specified.

NOTE: All torque values are in foot-pounds (lb.-ft.), except those marked with asterisks (*), which are in inch-pounds (lb.-in.). To convert lb.-ft. to Newton Meter (Nm)—metric—torque values, multiply the lb.-ft. value by 1.355, or for inch pounds, multiply the lb.-in. value by 0.113.

Unified National Thread	Grade 2 		Grade 5 		Grade 8 	
	Dry	Oiled	Dry	Oiled	Dry	Oiled
8-32	19*	14*	30*	22*	41*	31*
8-36	20*	15*	31*	23*	43*	32*
10-24	27*	21*	43*	32*	60*	45*
10-32	31*	23*	49*	36*	68*	51*
1/4-20	66*	50*	9	75*	12	9
1/4-28	76*	56*	10	86*	14	10
5/16-18	11	9	17	13	25	18
5/16/24	12	9	19	14	25	20
3/8-16	20	15	30	23	45	35
3/8-24	23	17	35	25	50	35
7/16-14	32	24	50	35	70	55
7/16-20	36	27	55	40	80	60
1/2-13	35	35	75	55	110	80
1/2-20	40	40	90	65	120	90
9/16-12	55	55	110	80	150	110
9/16-18	60	60	120	90	170	130
5/8-11	75	75	150	110	220	170
5/8-18	85	85	180	130	240	180
3/4-10	130	130	260	200	380	280
3/4-16	150	150	300	220	420	320
7/8-9	125	125	430	320	600	460
7/8-14	140	140	470	630	660	500
1-8	190	190	640	480	900	680
1-14	210	210	710	530	1000	740

* Value shown is in pound-force inch (lb.-in.)—inch pounds.

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